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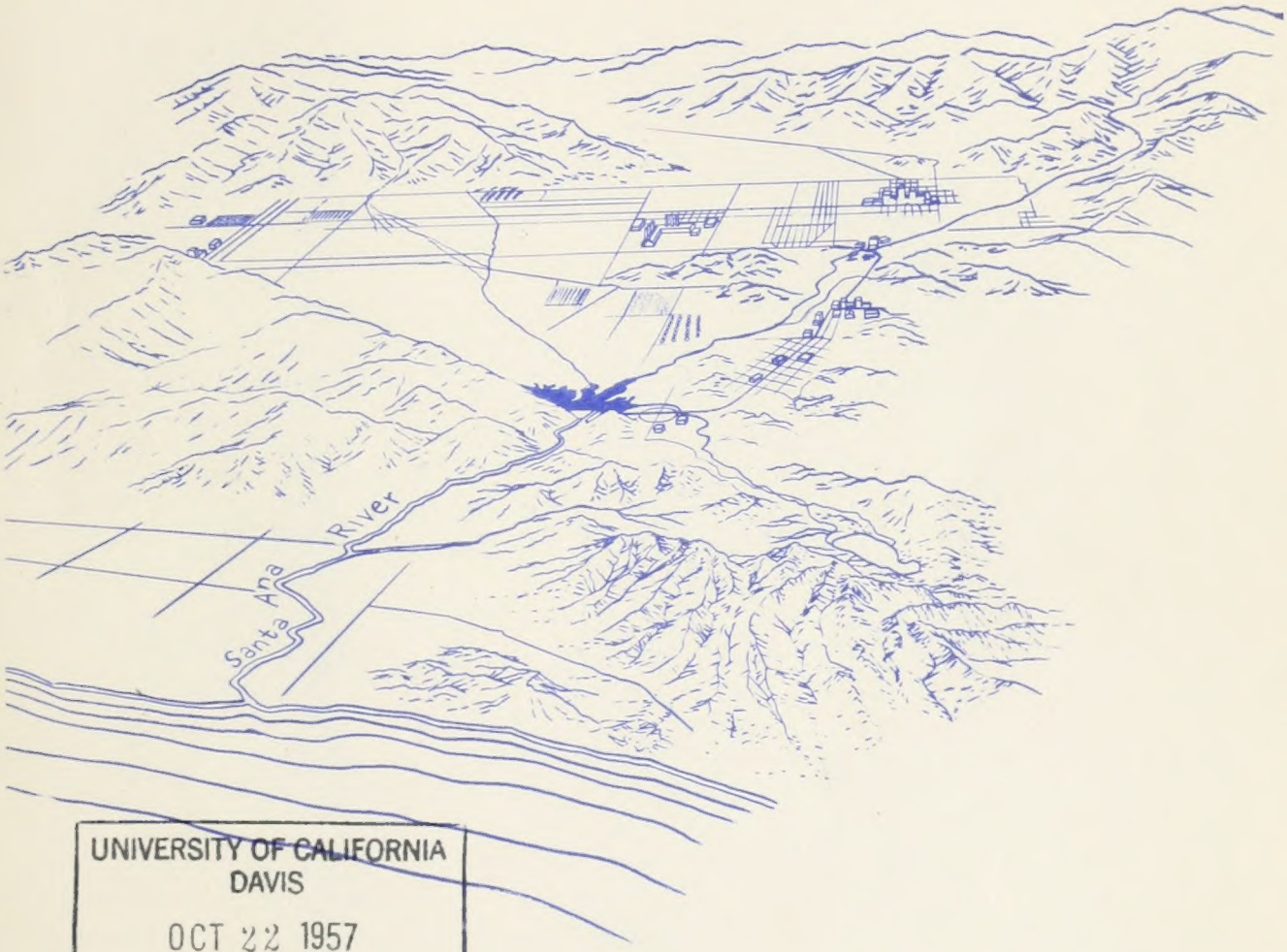
BULLETIN 40-57

QUALITY OF SURFACE AND GROUND WATERS IN UPPER SANTA ANA VALLEY



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HARVEY O. BANKS
Director of Water Resources

JUNE, 1957

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

BULLETIN 40-57

QUALITY OF SURFACE AND GROUND WATERS IN UPPER SANTA ANA VALLEY

GOODWIN J. KNIGHT
Governor

HARVEY O. BANKS
Director of Water Resources

JUNE, 1957

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ADDRESS REPLY TO
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STATE OF CALIFORNIA

Department of Water Resources

LOS ANGELES

Honorable Harvey O. Banks, Director
Department of Water Resources
Sacramento, California

Dear Sir:

There is submitted herewith a report entitled "Quality of Surface and Ground Waters in Upper Santa Ana Valley", prepared pursuant to Chapter 832, Statutes of 1929.

The report features more than 900 surface water and 2,400 ground water analyses including approximately 70 surface water and 300 ground water analyses from Bulletin No. 40-A which is now out of print.

Recognition of the need for study of the water quality problems in Upper Santa Ana Valley led to the compilation of the large volume of unpublished basic water quality data for streams and ground water basins in the valley and the publication of this report.

Very truly yours,

Max Bookman

Max Bookman, District Engineer
Southern California District

Honorable Harvey O. Banks, Director
Department of Water Resources
Sacramento, California

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Very truly yours,

Max Dolcini, District Engineer
Southern California District

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FOREWORD

In accordance with Chapter 52, Statutes of 1956, the Division of Water Resources of the Department of Public Works, State of California, was replaced on July 5, 1956, by the Department of Water Resources, State of California. This investigation was conducted and the report prepared by staff of the Department of Water Resources as one of a series of bulletins concerning quality of water in portions of southern California. Previous reports in this series are "South Coastal Basin Investigation, Quality of Irrigation Waters", Bulletin No. 40, 1933, and "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters", Bulletin No. 40-A, 1933. Mineral analyses contained in this report of surface and ground waters within Upper Santa Ana Valley are for the period ending September, 1954.

ACKNOWLEDGMENT

The following individuals and public and private agencies contributed a large portion of the data presented herein and their assistance and cooperation is gratefully acknowledged:

Cal Engineers, El Monte
Corona Foothill Mutual Lemon Company
Edward S. Babcock and Sons, Riverside
Etiwanda Water Company
Fontana Union Water Company
Gage Canal Company
Kaiser Steel Corporation, Fontana Plant
Monte Vista County Water District
Riverside Water Company
San Antonio Water Company
San Bernardino County Flood Control District
San Bernardino Valley Water Conservation District
San Bernardino Water Department
Temescal Water Company
United States Department of Agriculture, Agricultural Research Service, Soil and Water Conservation Research Branch, United States Salinity Laboratory, Riverside
Yucaipa Water Company No. 1

Special mention is made of the services rendered by University of California at Riverside in providing free of charge, laboratory space and equipment to the Department of Water Resources for many years.

ORGANIZATION

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M. J. Shelton . . . . . Deputy Director of Water Resources
William L. Berry . . . . . Chief, Division of Resources Planning
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QUALITY OF SURFACE AND GROUND WATERS

IN

UPPER SANTA ANA VALLEY

1. INTRODUCTION

The furtherance of a coordinated plan for full conservation, development, and utilization of the water resources of southern California to best meet the water requirements with the use of both local and imported supplies, must provide for water of satisfactory quality as well as supplies in sufficient quantity. The importance of the quality of water supplies was recognized in early investigations in connection with The California Water Plan, and as part of the continuing investigation in southern California, a program of sampling and chemical analyses has been carried out since 1930. One of the purposes in initiating the program in 1930 was to provide historic records of mineral quality of the water supplies of the area in order to ascertain the changes in mineral quality taking place with time, and to determine the degradation in the quality of water as utilization increased. In addition, it was of interest to determine the effect on the quality of the waters in the area of importation of water supplies from other distant sources outside the watershed.

Authorization

The preparation of this report and the collection of the water quality data presented herein was conducted with funds appropriated annually by the California State Legislature for the Southern California Area Investigation as authorized by the Legislature originally under Chapter 832, Statutes of 1929.

Cooperation

The program of sampling of water quality was undertaken cooperatively by the State Division of Water Resources, first with the assistance of the United States Department of Agriculture, and in later years carried on in the cooperation with the University of California at Riverside. These cooperating agencies assisted by furnishing laboratory facilities for performance of analyses by the Division of Water Resources. Additional laboratory facilities were established, in cooperation with San Bernardino County Flood Control District, in 1950 to implement this Division's water quality investigations authorized by the Legislature through enactment of Chapter 1552, Statutes of 1949.

Scope of Investigation

This report presents a compilation of mineral analyses of surface and ground water in the Upper Santa Ana Valley, a description of the methods of analysis employed, and a discussion of water quality standards. Recognition of the need for study of the water quality problems in Upper Santa Ana Valley led to the compilation of the large volume of unpublished basic water quality data for streams and ground water basins in the Valley and the preparation of this report. The publication of these basic data herein is to provide for a permanent record and to permit their utilization in evaluation of water quality problems in numerous other investigations being conducted by this Department and other agencies.

A prior report, entitled Bulletin No. 40-A, "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters", was published in 1933. This report contained over 1,500 detailed

analyses of surface and ground waters, imported water, sewage effluent, industrial waste, ocean water, and water from springs and lakes. Bulletin No. 40-A is now out of print, and therefore this report has included approximately 70 surface water and 300 ground water analyses which were published in Bulletin No. 40-A in order to provide for a better continuity of record. A total of more than 900 surface water and 2,400 ground water analyses are presented herein.

Subject matter of this report is presented under the following headings: 1. Introduction; 2. Methods of Analysis and Water Quality Standards; 3. Surface Water Quality; and 4. Ground Water Quality. In addition, cross indexes for surface sampling station and well numbering systems are presented in two appendixes.

Related Investigations and Reports

The Division of Water Resources has, as a part of the Southern California Area Investigation, performed several investigations concerning, or related to, quality of the water resources of southern California. The reports culminating from these studies are as follows:

"South Coastal Basin, A Symposium". Bulletin No. 32. 1930.

"South Coastal Basin Investigation, Quality of Irrigation Waters". Bulletin No. 40. 1933.

"South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters". Bulletin No. 40-A. 1933.

In addition, many water quality investigations in the southern portion of the State have been conducted by this Division since 1950, pursuant to Chapters 1549 and 1552, Statutes of 1949.

Area Under Investigation

The Upper Santa Ana Valley, comprising approximately 1,500 square miles, is located in portions of Los Angeles, Orange, Riverside, and San Bernardino Counties, with the major part situated within the latter two counties, as shown on Plate 1. About 670 square miles of the Valley have been classified as water-bearing valley and hill areas.

San Gabriel and San Bernardino Mountains border the Valley on the north and east, respectively, attaining elevations of over 11,000 feet above sea level in some locations. Jurupa Mountains and unnamed granitic hills lie along the south periphery of the Valley, and Puente and San Jose Hills border the Valley on the west.

Many streams flow intermittently into the Valley from the surrounding mountains. All streams are tributary to the Santa Ana River, which has a mean seasonal natural runoff of 306,300 acre-feet at Prado Dam. Plate 2 shows the locations of the major streams in the area under investigation.

Upper Santa Ana Valley is comprised of numerous ground water basins, as delineated on Plates 3-A, 3-B, 3-C, and 3-D. Chino and Bunker Hill Basins are the most productive ground water reservoirs, and the majority of the ground water analyses presented herein are for samples from these basins.

The mean seasonal precipitation in Upper Santa Ana Valley varies from a minimum of about 11 inches, southwest of Jurupa Mountains, to over 45 inches at the mountain tops. The 50-year mean seasonal precipitation at Ontario (Braundale Acres) and San Bernardino is 15.31 inches and 17.21 inches, respectively.

Although land use in Upper Santa Ana Valley is predominately agricultural, there has been a noticeable increase in residential and

industrial development in recent years. The greatest increase in urban development has occurred in the Pomona, Ontario, Fontana, San Bernardino, and Riverside areas, with the Southern California Edison Company steam power plant and the Kaiser Steel Mill in the Etiwanda-Fontana area being the dominant industrial center. This trend has, of course, greatly increased domestic and industrial water consumption, and may have a noticeable effect on the quality of the water resources of the area.

2. METHODS OF ANALYSES AND WATER QUALITY STANDARDS

The mineral analyses presented in this report have generally included the following determinations: pH, specific electrical conductance, total dissolved solids, boron, fluoride, bicarbonate, chloride, sulphate, nitrate, calcium, magnesium, sodium, potassium, total hardness, carbonate, and phosphate. Specific methods of analysis are listed for each laboratory that has performed some the included analyses. For clarity, numbers have been assigned to each determination. This same number is repeated whenever reference is made to the same method.

The following references were used in preparation of this section of the report:

American Public Health Association, American Water Works Association, and the Federation of Sewage and Industrial Wastes Association. "Standard Methods for the Examination of Water, Sewage, and Industrial Wastes". 10th Edition. 1955.

California State Water Pollution Control Board. "Water Quality Criteria". Publication No. 3. 1952.

Doneen, L. D. "Classification of Waters". California Agriculture, University of California Experiment Station, page 4. October, 1950.

United States Federal Security Agency, Public Health Service. "Public Health Service Drinking Water Standards, 1946". 1946.

Methods of Analysis

The following paragraphs contain brief descriptions of the methods of analysis for the determination of each of the major constituents.

Department of Water Resources Laboratory at San Bernardino. Methods of analysis used by State Department of Water Resources laboratory at San Bernardino, described as follows, generally follow the procedures presented in the tenth edition of "Standard Methods for the Examination of Water, Sewage, and Industrial Wastes".

1. pH is determined by use of a glass electrode in combination with a saturated calomel electrode to provide the reference potential.

2. Specific electrical conductance is determined by measuring the electrical resistance of the sample with a glass conductivity cell and a Wheatstone bridge. Results are expressed as the reciprocal of ohms x 10^6 (micromhos per cm) at 25° Centigrade.

3. The total dissolved solids determination is made by evaporating a measured amount of the sample at 105° to 115° Centrigrade and weighing the residue.

4. Boron is determined by the electrometric method of titration.

5. Fluoride is determined by the zirconium-alizarin colorimetric method, with prior distillation of the sample when interfering ions are present in excessive amounts, e.g., sulphate over 200 parts per million. chloride over 500 parts per million.

6. Carbonate and bicarbonate are determined by automatic titration with 0.02 N sulphuric acid, using phenolphthalein indicator for carbonate and maxed methyl orange-xylene cyanole indicator for bicarbonate. The acid is automatically fed into the sample until a predetermined potential is reached

between a standard calomel electrode and a glass electrode. Prior to December, 1953, manual titrating procedures were used.

7. Chloride is determined by adding potassium chromate indicator to the measured sample used for carbonate-bicarbonate titration and then automatically titrating with 0.0141 N silver nitrate. A mercurous sulphate electrode is used in combination with a silver electrode. Prior to December, 1953, manual titrating procedures were used.

8. Sulphate is determined gravimetrically as barium sulphate.

9. Nitrate is determined colorimetrically by the phenol disulphonic acid method with silver precipitated as silver chloride. The Davarda reduction method is used when nitrate concentration exceeds 62 ppm. Prior to November, 1955, nitrate was determined exclusively by the Davarda method.

10. Calcium and magnesium are determined by titration with ethylenediaminetetraacetate (EDTA) using Pontochrome Black TA as an indicator for the total hardness and ammonium purpurate (murexide) for calcium. Magnesium is then calculated by difference.

11. Sodium and potassium are determined by flame photometric methods, with due precautions against errors from interferences. The uranyl zinc acetate gravimetric method was used prior to December, 1951.

12. Phosphate is determined by the ammonium molybdate colorimetric method for orthophosphate, using stannous chloride as a reducing agent.

Department of Water Resources Laboratory at Riverside. Methods of analysis used in the Department of Water Resources laboratory at University of California at Riverside are the same as those currently used at the San Bernardino laboratory with the following exceptions:

4. Boron is determined by the titrimetric method, using mannite.

6. Bicarbonate is titrated to a pH of 4.2 using a pH meter. Prior

to July, 1954, bicarbonate was titrated with methyl orange indicator.

6 and 7. Carbonate, bicarbonate, and chloride are determined by manual titrating procedures.

9. Nitrate is determined by the phenoldisulphonic acid method.

10. Prior to March, 1954, calcium was determined by oxalate-permanganate titration, EDTA for total magnesium plus calcium, and magnesium was then determined by difference.

11. Prior to April, 1954, sodium was determined by the uranyl zinc acetate method.

Pacific Chemical Consultants. Methods of analysis used in this laboratory are the same as those currently used in the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

3. The total dissolved solids determination is made by evaporating a measured amount of sample at 95° to 110° Centigrade and weighing the residue.

4. Boron is determined by a colorimetric method utilizing carmine-sulphuric acid solution. Boron concentration is indicated by a color change from bright red to bluish red or blue. Transmittance is measured by a spectrophotometer or photoelectric colorimeter and compared to a concentration-transmittance calibration graph.

6. Methyl red-bromcresol green mixed indicator is used in the bicarbonate determination.

United States Salinity Laboratory at Riverside. Methods of analysis are the same as those currently used in the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

6. Methyl orange is used alone as the bicarbonate titration indicator.

Edward S. Babcock and Sons. Methods of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

6. Methyl orange is used alone as the bicarbonate titration indicator.

9. Nitrate is determined by the phenoldisulphonic acid method.

Cal Engineers. Methods of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

3. The total dissolved solids determination is sometimes made by summation.

4. A boron indicator consisting of bromthymol blue, chlorphenol red, and phenol red is employed, with sodium hydroxide being added to produce a pH of 7.

9. Nitrate is determined by the phenoldisulphonic acid method.

10. Urea added to aid precipitation.

United States Geological Survey, Quality of Water Branch. Method of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

3. The total dissolved solids determination is made by evaporating a measured amount of sample in a tared platinum dish by use of a steam bath, drying residue in an oven for an hour at 180° Centigrade, and weighing desiccated residue.

4. Boron is determined by the carmine-sulphuric acid colorimetric method.

5. The effect of sulphate and chloride are balanced by additions

of one of the salts.

6. Carbonates and bicarbonates are titrated with sulphuric acid to pH 8.2 and 4.5, respectively, using Backman pH meter.

8. Sulphate is determined by the Schwarzenbach titration method.

9. Nitrate is determined by the phenoldisulphonic acid method.

The Metropolitan Water District of Southern California, F. M. Weymouth Memorial Softening and Filtration Plant. Methods of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

3. The total dissolved solids determination is made by summation.

4. Boron is determined by the carmine-sulphuric acid colorimetric method.

6. Methyl red-bromcresol green is used as the bicarbonate titration indicator.

9. Nitrate is determined by the phenoldisulphonic acid method unless the color of the water sample interferes sufficiently to require reduction by the Devarda method.

10. Calcium is determined by the oxalate-permanganate method.

Carl Wilson Laboratory. Methods of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

3. The total dissolved solids determination is made both by evaporation and summation.

4. Boron is determined by the carmine-sulphuric acid colorimetric method.

6. Lacmoid is used as the bicarbonate titration indicator.

9. Nitrate is determined by the phenoldisulphonic acid method.

10. Calcium and magnesium are determined by the oxalate and phosphate gravimetric methods, respectively.

11. Sodium and potassium are determined by the chloroplatinate method.

San Bernardino County Flood Control District. Methods used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions

4. Boron is determined by the carmine-sulphuric acid colorimetric method.

9. Nitrate is determined by the phenoldisulphonic acid method.

Los Angeles County Flood Control District. Methods of analysis used by this laboratory are the same as those currently used by the Department of Water Resources laboratory at San Bernardino, with the following exceptions:

6. Carbonate and bicarbonate are determined using phenolphthalein and methyl orange indicators, respectively.

9. Nitrate is determined by use of brucine.

11. Sodium and potassium are determined from the difference between the sums of cations and anions.

Water Quality Standards

Domestic Use. Probably the most widely used criteria for determining the suitability of water for domestic and municipal use are those given in the "United States Public Health Service Drinking Water Standards, 1946" (also adopted by California State Department of Public Health). Limits for mineral constituents in water are divided into mandatory requirements and recommended criteria. The mandatory limits are as follows:

Lead (Pb)	0.1 ppm
Fluoride (F)	1.5 ppm
Arsenic (As)	0.05 ppm
Selenium (Se)	0.05 ppm
Hexavalent Chromium	0.05 ppm

Non-mandatory, but recommended, limits are as follows:

Copper (Cu)	3.0 ppm
Iron (Fe) and Manganese (Mn) together	0.3 ppm
Magnesium (Mg)	125 ppm
Zinc (Zn)	15 ppm
Chloride (Cl)	250 ppm
Sulphate (SO_4)	250 ppm
Phenolic compounds in terms of phenol	0.001 ppm
Total solids, desirable	500 ppm
permitted	1000 ppm

Total hardness is a significant factor in the determination of the suitability of a water for domestic and municipal use. Water containing 100 ppm or less of hardness, as calcium carbonate, are considered as "soft"; those containing 101 to 200 ppm are considered as "moderately hard"; and those with more than 200 ppm are considered "very hard".

The relationship of infant methemoglobinemia to nitrates in water has led to recommendations that limitations be set for nitrates in drinking water. The California State Department of Public Health has recommended a tentative limit of 10 parts per million nitrate nitrogen (44 ppm nitrates) for domestic waters. Any waters containing higher nitrate concentrations may be considered to be of questionable quality for domestic and municipal use.

Irrigation Use. The following excerpts from a paper by Dr. L. D. Doneen of the Division of Irrigation of the University of California at Davis present criteria used by the Department of Water Resources in evaluating suitability of waters for irrigation.

"Because of diverse climatological conditions, crops, and soils in California, it has not been possible to establish rigid limits for all conditions involved. Instead, irrigation waters are divided into three broad classes based upon work done at the University of California, and at the Rubidoux and Regional Salinity Laboratories of the United States Department of Agriculture.

"Class 1. Excellent to Good--Regarded as safe and suitable for most plants under any condition of soil and climate.

"Class 2. Good to Injurious--Regarded as possibly harmful for certain crops under certain conditions of soil or climate, particularly in the higher ranges of this class.

"Class 3. Injurious to Unsatisfactory--Regarded as probably harmful to most crops and unsatisfactory for all but the most tolerant.

"Tentative standards for irrigation waters have taken into account four factors or constituents, as listed below.

Factor	Class 1 excellent to good	Class 2 good to injurious	Class 3 injurious to unsatisfactory
Conductance (EC x 10^6 at 25° C.)	Less than 1,000	1,000-3,000	More than 3,000
Chloride, epm	Less than 5	5-10	More than 10
Per Cent Sodium	Less than 60	60-75	More than 75
Boron, ppm	Less than 0.5	0.5-2.0	More than 2.0"

Industrial Use. Water that meets the mineral quality standards for domestic use will usually be a satisfactory source for industrial use. Industrial water quality needs are so diverse that a public supply will not usually conform to all requirements without additional treatment. Normally, water complying with domestic standards is considered suitable for industrial use, although further treatment may be required for special industrial needs.

Significance of Analyses

Determinations made as part of the analysis of surface and ground waters indicate the degree of suitability of the waters for various beneficial uses. The significance of each determination is discussed as follows:

1. The pH is the logarithm of the reciprocal of the hydrogen ion concentration, more precisely, of the hydrogen ion activity in moles per liter. The pH enters into the calculation of carbonate, bicarbonate, and carbon dioxide; into the calculation of the corrosion or stability index; and into the control of water treatment. The practical pH scale extends from less than 0, very acid, to more than 14, very alkaline, with the middle value of pH 7 corresponding to exact neutrality at 25° Centigrade. Whereas "alkalinity" and "acidity" express the total reserve or buffering capacity of a sample, the pH value represents the instantaneous concentration of hydrogen ions.

2. Specific electrical conductance is commonly used for indicating the total concentration of the ionized constituents of a natural water. It is related to the sum of the anions, or cations, determined chemically and usually correlates approximately with the dissolved solids.

3. The total dissolved solids determination is an arbitrary quantity and normally will not check with the theoretical value for solids calculated from the mineral analysis. During evaporation, bicarbonates are converted to carbonates; nitrates and chlorides may partially hydrolize if heavy metals are present, as in mine waste, losing volatile nitric and hydrochloric acids; and variable amounts of water of crystallization may be retained by the residue.

4. Boron in excess of 2.0 ppm in irrigation water is deleterious

to most plants, and there is evidence that some plants are adversely affected by concentrations as low as 1.0 ppm.

5. The accurate determination of fluoride in water supplies has become of increasing importance with the growth of the practice of fluoridation of supplies as a public health measure. The United States Public Health Service Drinking Water Standards of 1946 recommend that the presence of fluoride in excess of 1.5 ppm shall constitute grounds for the rejection of the water supply.

6. Carbonate, bicarbonate, hydroxide, and less frequently borate, silicate, and phosphate impart the property of alkalinity to water. Excessive alkalinity in irrigation water is detrimental in that it adds to the total salinity and is frequently accompanied by high pH values. Alkalinity is also detrimental in many industrial processes, especially those involving the production of food, ice, and beverages. Alkalinity is desirable when it serves to inhibit corrosion in pipe lines.

7. Chloride is one of the major anions in water and sewage. The United States Public Health Service Drinking Water Standards of 1946 suggest that chloride shall not exceed an upper limit of 250 ppm in acceptable water supplies. This is one of the more critical ions in irrigation water. Doneen's standards indicate that concentrations above 10 epm, or 350 ppm, may be injurious.

8. Sulphate is well distributed in nature and is relatively abundant in hard waters. Because of a cathartic physiological effect on the human body, the United States Public Health Service Drinking Water Standards of 1946 suggest that sulphate shall not exceed an upper limit of 250 ppm in acceptable water supplies.

9. Nitrate represents the most highly oxidized phase in the

nitrogen cycle and normally reaches significant concentrations in the final stages of biological oxidation. It generally occurs in trace quantities in surface supplies, but may attain high levels in some ground waters. In excessive amounts, it is suspected of contributing to, or being associated with, the illness known as infant methemoglobinemia.

10. Calcium and magnesium salts in water are the most frequent cause of hardness. Calcium and magnesium combinations are classed as incrusting solids while calcium chloride and magnesium sulphate in appreciable amounts are classed as corrosive salts.

11. Sodium is present in most natural waters and may be found in fairly high concentrations when water is softened by a process in which calcium and magnesium are exchanged for sodium.

Sodium in irrigation water affects sensitive plants, such as avocado and stone fruit trees. The sodium ratio, $\frac{Na \times 100}{Ca + Mg + Na + K}$, with cations expressed in equivalents per million, is of significance in classification of irrigation water. This is due to base exchange effects on soil structure caused by water with a high sodium ratio. Fine soils are deflocculated and permeability is reduced. The soil then becomes alkaline with restricted drainage and poor removal of accumulated salts.

12. New interest in the potassium content of water has developed as a result of the activity of the naturally occurring isotope K^{40}. It usually constitutes a major source of the natural (background) radioactivity found in water supplies.

13. Phosphate occurs in traces in many natural waters and often in appreciable amounts during periods of low biological productivity. Traces of phosphate increase the tendency of troublesome algae to grow in reservoirs. Waters receiving raw or treated sewage, agricultural drainage,

or certain industrial wastes normally contain significant concentrations of phosphate. In addition, phosphate is frequently added to industrial waters, in various forms, as a corrosion inhibitor.

3. SURFACE WATER QUALITY

Analyses of surface waters in Upper Santa Ana Valley are presented in Table 1, "Mineral Analyses of Surface Waters". The water quality data set forth in this table, and methods of analysis, have been previously discussed in Section 2.

Surface Water Sampling Station Numbering System

Location Numbering System. Surface water sampling stations are presented in Table 1 numerically by "location" number. The "location" numbering system is an extension of the system used by Los Angeles County Flood Control District. In this system, six-minute quadrangles are divided into 10 equal parts each way, forming a grid. These subdivisions are numbered from 0 to 9 from left to right and from top to bottom. The two right-hand digits of the "location" number thus show the location of the station within the quadrangle. Each six-minute quadrangle is given a number and the digits to the left in the "location" number show this quadrangle number. The letter following the number differentiates the stations within the small coordinate rectangle. Thus, Location No. 18573A means that the station is in the eighth column to the east of, and in the fourth row to the south of, the northwest corner of six-minute quadrangle number 185.

Station Numbering System. The "station" or "stream-mile" numbering system has been used to identify the sampling stations shown on Plate 2. "Station" numbers are also included in Table 1. This numbering system is

constructed as follows. The State is divided into seven major stream systems as defined in State Water Resources Board Bulletin No. 1, "Water Resources of California", dated 1951. Hydrographic Division No. 4 was further divided, according to major drainage areas and local control factors, into three separate regions. By act of the State Legislature, these were designated Water Pollution Control Regions 4, 8, and 9. The entire drainage area of the Santa Ana River system is within Regions 4 and 8.

The first digit in the stream sampling point number designates the Water Pollution Control region. The second digit denotes the stream system number within the region. These stream systems are numbered consecutively in a southerly direction, beginning with "1" for the most northerly system in the region. Thus, 82 indicates the second major stream system from the northern boundary of Water Pollution Control Region 8. A point on a stream is denoted by the distance along the stream, in miles, between the point and the mouth of the stream. A point on a tributary is denoted by both the distance between the mouth of the major stream and its confluence with the tributary, and the distance along the tributary between the point and the confluence.

Examples:

82-26.1--Santa Ana River, 26.1 miles upstream from mouth.

82-57.9-4.3--Warm Creek, 4.3 miles above its confluence with the Santa Ana River, which is 57.9 miles above the mouth.

A cross index between the afore-mentioned sampling station numbering systems is set forth in Appendix A.

TABLE 1

MINERAL ANALYSES OF SURFACE WATERS

Location and station numbers	Location and description	Discharge, in second-feet	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 21°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS													
S1[illegible] 32-[illegible] -7.3	Bear Creek, N. of San Bernardino; at toe of Bear Valley Dam. S.B.Co.F.C.D. sample point No. 635.	------	--	3-28-31[a]	---	245	---	0.01	---	137	Tr.	10	--	26	11	7	--	12	110[b]	
		------	--	5-24-51[c]	7.9	273	297	0.00	0.1	154	8	11	1	24	13	12	--	19	114	
		------	--	9- 9-52[c]	8.6	215	128	0.00	0.0	139	7	10	Tr.	27	9	6	2	11	103	
S17094A 32-47.7 -2.6-5.4	Box Springs Arroyo. SE. of Riverside 0.8 mile NW. of A.T.&S.F.R.R. crossing, 100 feet NE. of U.S. Highway No. 3[illegible].	------	--	3-10-49	8.3	385	---	0.07	---	106	56	19	7	22	10	46	--	51	96[b]	
S1[illegible] 32-[illegible] -[illegible] -11.[illegible]	[illegible] Creek. N. of [illegible]; at [illegible] gaging station, [illegible] feet N. [illegible] feet N. of [illegible] corner, Sec. [illegible], T. [illegible] N., R. [illegible] W., S.B.B.&M., [illegible] feet N. of U. S. Highway No. [illegible].	16	--	3-17-32[a]	---	565	---	0.04	---	290	11	61	4	73	20	32	--	21	265[b]	
		7.4	--	4-15-32[a]	---	658	---	0.05	---	330	13	80	2	85	22	36	--	20	303[b]	
		1.6	--	9-17-32[a]	---	779	---	0.04	---	324	12	144	2	95	33	32	--	16	373[b]	
		2.0	--	12-14-32[a]	---	785	---	0.06	---	345	12	123	3	97	29	39	--	19	362[b]	
		21	--	1-17-33[a]	---	598	---	0.07	---	299	20	73	4	68	16	27	--	27	236[b]	
		170	--	1-17-52	7.7	324	280	0.01	0.0	128	11	35	6	39	8	20	--	--	130[b]	
		3	68	5- 5-52	8.0	500	355	0.06	---	264	23	40	2	67	9	32	3	--	204[b]	
S19442 32-57.9 -0.8-5.8 -13.1	Cajon Creek. S. of Cozy Dell; at old abandoned bridge abutments, 200 feet W. and 1,100 feet S. of E¼ corner, Sec.12, T. 2 N., R. 6 W., S.B.B.&M.	0.1	--	10-19-32[a]	---	679	---	0.12	---	357	22	54	Tr.	80	19	48	--	27	276[b]	
		5	--	1-26-49	8.2	413	---	0.00	---	242	34	54	Tr.	61	12	52	--	36	202[b]	
S19442 32-57.9 -0.8-5.8 -10.3	Cajon Creek. S. of Keenbrook; at Lamb Ranch crossing, 4.1 miles NW. of Devore, 900 feet W. and 500 feet S. of NE. corner, Sec.24, T. 2 N., R. 6 W., S.B.B.&M.	8	--	12-31-52	7.9	680	---	----	---	293	17	--	—	--	---	--	--	--	---	
		18	46	1-19-54	7.5	318	229	0.04	---	117	8	45	2	34	7	21	3	--	114[b]	
S1[illegible] [illegible]-31.[illegible] -[illegible].4-[illegible].[illegible] -[illegible].1	Carbon Creek, N. fork. SW. of Chino; 0.[illegible] mile W. of Abbona Rd., 150 feet S. of old English Rd. San Bernardino County Flood Control District (S.B.Co. F.C.D.) sample point No. 74.	------	--	1-26-44[c]	7.7	1,264	840	0.18	---	429	75	234	5	122	51	75	--	43	516	
				2-13-45[c]	8.6	1,185	759	0.00	---	403	102	218	4	119	57	99	--	29	530	
				5- 1-45[c]	8.4	1,287	600	0.08	---	455	74	114	9	92	59	89	--	29	472	
				9- 6-45[c]	8.2	1,485	720	0.12	---	537	88	285	27	143	64	108	--	27	320	
				11- 5-45[c]	8.4	1,378	934	0.00	---	478	81	231	16	129	64	90	--	25	585	
				10-31-46[c]	8.2	1,499	824	0.28	---	545	80	275	7	111	68	110	--	30	566	
S1[illegible]1 [illegible]-31.[illegible] -[illegible].4-[illegible].1	Carbon Creek, main fork. SW. of Chino; at White's Bridge, 0.5 mile W. of Abbona Rd. S.B.Co.F.C.D. sample point No. 73.	------	--	1-26-44[c]	7.8	1,586	960	0.25	---	510	131	235	12	87	62	169	--	42	471	CO_3 = 29 ppm.
				5- 1-45[c]	8.3	1,534	874	0.05	---	515	125	206	27	100	70	169	--	41	535	CO_3 = 24 ppm.
S1[illegible]1A [illegible]-31.2 -[illegible].4-[illegible].1 -0.4	Carbon Creek, N. fork of main fork. SW. of Chino; N. of White's Bridge, 0.25 mile N. of Carbon Canyon Rd., 0.5 mile W. of Abbona Rd. S.B.Co.F.C.D. sample point No. 72.	------	--	1-26-44[c]	8.4	1,105	696	0.10	---	376	91	164	10	79	52	86	--	31	413	CO_3 = 23 ppm.
		------	--	6- 2-45[c]	7.9	1,380	964	0.36	0.2	566	121	194	2	123	69	107	--	28	590	
S1991 [illegible]-31.[illegible] -8.4-0.1	Carbon Creek. SW. of Chino; at Ramona Ave. bridge. S.B.Co.F.C.D. sample point No. 87.	------	--	3-22-44[c]	8.0	1,124	713	0.30	---	367	87	167	8	72	40	109	—	41	346	CO_3 = 9 ppm.
S1991A 32-31.2 -8.3	Chino Creek. SW. of Chino; 900 feet E. of Ramona Ave. S.B.Co.F.C.D. sample point No. 37.	------	--	6- 4-43[c]	9.4	1,121	786	0.00	---	340	23	195	71	81	57	70	--	26	437	
		------	--	1-26-44[c]	7.2	758	469	0.05	---	276	15	134	20	85	13	52	--	30	267	
S1991B 32-31.2 -8.5	Chino Creek. SW. of Chino; at Ramona Ave. bridge. S.B.Co.F.C.D. sample point No. 142.	------	--	2-13-45[c]	7.2	906	683	0.01	---	179	7	317	9	137	33	32	--	13	478	
		------	--	5- 1-45[c]	7.4	845	560	0.02	---	330	32	136	25	111	23	62	—	27	374	
S15850 32-31.2 -[illegible].4	Chino Creek. NW. of Corona; at [illegible] Rd. S.B.Co.F.C.D. sample point No. [illegible]. [illegible] gaging station 1,100 feet downstream during [illegible].	22	--	3- 9-32[a]	---	986	---	0.09	---	351	27	232	6	122	34	64	--	24	445[b]	
		4.2	--	5-19-32[a]	---	975	---	0.17	---	396	27	177	6	114	29	74	--	28	404[b]	
		0.6	--	7-14-32[a]	---	661	---	0.06	---	308	34	49	1	70	18	53	--	31	249[b]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station	Location and description	Discharge in second-feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Carbonate (CO3)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							[illegible]	(continued)												
[illegible]	Chino Creek; at Pomona-Rincon Rd. (continued)	0.[illegible]	--	[illegible]-19-[illegible]	---	645	---	0.[illegible]	---	302	36	39	1	68	18	51	--	31	244[b]	
[illegible]		5.9	--	12-[illegible]-[illegible]	---	867	---	[illegible]	---	332	27	155	6	101	26	64	--	28	359[b]	
[illegible]		44	--	1-17-53[illegible]	---	716	---	[illegible]	---	226	28	137	6	64	19	62	--	36	258[b]	
		0.2	68	8-12-37	---	639	---	[illegible]	---	321	43	45	1	75	17	51	--	30	257[b]	
		0.6	64	10- 6-37	---	659	---	[illegible]	---	337	33	47	0	69	20	55	--	32	255[b]	
		1[illegible]	55	2-21-38	---	931	---	[illegible]	---	370	28	167	3	109	17	83	--	34	342[b]	
		[illegible]	68	6- 1-38	---	860	---	[illegible]	---	[illegible]	29	123	2	90	28	64	--	29	340[b]	
		0.3	74	8-31-38	---	788	---	[illegible]	---	385	28	45	0	71	22	62	--	33	268[b]	
		3.4	49	11-28-38	---	787	---	[illegible]	---	364	28	84	2	80	31	45	--	23	327[b]	
		1[illegible]	54	3- 6-39	---	965	---	[illegible]	---	360	36	182	2	90	29	85	--	35	344[b]	
		0.6	72	6-12-39	---	700	---	[illegible]	---	323	26	69	1	70	19	53	--	31	253[b]	
		0.2	73	8-28-39	---	620	---	----	---	304	22	44	0	65	16	48	--	31	228[b]	
		4.1	57	12- 8-39	---	810	---	----	---	376	21	92	1	91	24	58	--	28	326[b]	
		3.0	55	3-13-40	---	850	---	----	---	376	21	136	1	98	25	53	--	27	349[b]	
		2.3	70	6-11-40	---	720	---	----	---	[illegible]	43	62	0	76	18	79	--	40	264[b]	
		------	--	11-[illegible]-46[c]	[illegible]	777	[illegible]	[illegible]	---	323	71	45	16	84	18	15	--	28	284	CO_3 = 12 ppm.
		------	--	[illegible]-31-46[c]	7.4	923	[illegible]	1.14	---	386	44	112	41	100	25	72	--	31	352	
		------	--	6- 2-49[c]	[illegible]	760	[illegible]	[illegible]	[illegible]	405	38	41	4	90	24	51	--	25	324	
		------	--	6-31-50[c]	7.3	711	[illegible]	0.10	0.1	366	35	57	4	80	21	41	--	24	298	
		------	--	9-11-51[c]	[illegible]	732	[illegible]	[illegible]	[illegible]	295	58	71	1	78	18	57	--	22	270	
		------	--	6- 9-52[c]	7.7	600	[illegible]	.11	0.7	349	31	34	2	77	17	61	--	33	262	
315850B [illegible]-1.4	Chino Creek. NW. of Corona; at new [illegible] below Junction Site Mill Creek. S.B.Co.F.C.D. sample point No. 527.	------	--	[illegible]-[illegible]-[illegible][c]	8.[illegible]	949	[illegible]	.41	Tr.	246	71	98	0	83	18	34	--	29	294	CO_3 = 10 ppm.
		------	--	[illegible]-11- 1[c]	7.7	820	[illegible]	[illegible]	0.1	259	77	110	4	90	20	61	--	30	304	
		------	--	6- 9-52[c]	8.[illegible]	780	[illegible]	.1[illegible]	0.4	271	83	104	4	97	20	55	--	28	325	
		------	--	[illegible]-31-[illegible][c]	7.[illegible]	[illegible]	[illegible]	[illegible]	1.0	317	108	114	4	96	26	84	[illegible]	34	349	
316735 [illegible]2-31.2 [illegible]4.	Chino Creek. S. of Chino; at Pine Ave. bridge, 1,100 feet E. of Pomona-[illegible]. S.B.Co.F.C.D. sample point No. 164.	------	--	11- 5-45[c]	8.[illegible]	868	[illegible]	[illegible]	---	[illegible]	29	92	18	99	24	55	--	27	347	CO_3 = [illegible] ppm.
		------	[illegible]	11-[illegible]-46	---	[illegible]	---	.1[illegible]	---	[illegible]	[illegible]	27	0	31	[illegible]	11	--	13	110[b]	
		------	[illegible]	1-[illegible]-47	---	889	---	[illegible]	---	395	[illegible]	156	11	100	28	73	--	30	367[b]	
		------	63	4-14-47	---	[illegible]	---	[illegible]	---	464	[illegible]	182	4	113	36	90	--	31	430[b]	
		------	--	[illegible]-[illegible]-47	[illegible]	694	[illegible]	0.0[illegible]	---	291	[illegible]	[illegible]	28	79	28	64	--	32	314	CO_3 = [illegible] ppm.
		------	64	10-[illegible]-47	---	666	---	[illegible]	---	350	27	54	6	75	23	61	--	32	292[b]	
		------	--	11- 3-48	---	625	---	0.0[illegible]	---	[illegible]	19	71	Tr.	76	17	60	--	34	260[b]	CO_3 = [illegible] ppm.
		------	--	3-10-49	8.4	820	---	0.32	---	381	44	120	7	100	24	73	--	31	342[b]	
		------	--	6- 2-49[c]	7.9	751	[illegible]	[illegible]	[illegible]	334	41	76	8	77	23	60	--	--	286	
		------	--	3- 2-50	7.2	670	---	0.24	---	306	34	72	16	70	20	57	--	32	287[b]	
		------	--	[illegible]-31-[illegible]	7.5	731	[illegible]	.10	0.1	325	40	73	9	71	19	53	--	--	295	
		------	--	[illegible]-12-50	8.4	650	---	[illegible]	---	[illegible]	60	67	1	76	18	50	--	29	264[b]	
		------	--	1-15-51[c]	7.5	826	[illegible]	0.29	0.0	[illegible]	47	77	17	82	14	64	--	--	285	
		------	--	4-28-51[c]	7.3	890	[illegible]	[illegible].07	0.6	356	[illegible]	147	30	117	20	85	--	27	374	
		2	66	5- 5-52[d]	8.4	880	---	0.09	0.5	314	38	120	31	92	24	62	18	28	328	CO_3 = 8 ppm.
		3	67	6- 9-52	7.8	530	---	----	---	276	34	---	--	---	--	--	--	--	239	
		0.5	68	7- 7-52	7.4	634	---	----	---	[illegible]	33	---	--	---	--	--	--	--	272	
		2	64	8- 4-52	7.9	[illegible]	---	----	---	220	17	---	--	---	--	--	--	--	175	
		0.2	64	9- 2-52	8.1	944	---	----	---	371	31	---	--	---	--	--	--	--	318	
		2	63	1[illegible]- 7-52	7.6	621	[illegible]	0.62	0.6	256	26	80	4	64	19	40	4	--	238[b]	
		1	64	11-11-52	8.2	793	---	----	---	337	29	---	--	---	--	--	--	--	281	CO_3 = 10 ppm.
		3	55	12- 9-52	7.8	806	---	----	---	320	28	---	--	---	--	--	--	--	316	
		4	54	1- 6-53	8.2	804	---	----	---	352	36	---	--	---	--	--	--	--	322	
		8	54	2-10-53	7.5	713	---	----	---	307	31	---	--	---	--	--	--	--	289	
		10	53	3-10-53	8.0	735	---	----	---	332	30	---	--	---	--	--	--	--	322	
		4	[illegible]	4- 6-53	7.8	[illegible]	---	----	---	361	30	---	--	---	--	--	--	--	311	
		3	67	5- 5-53	7.9	748	320	0.17	---	366	36	103	13	97	21	55	5	--	329[b]	
		3	68	6- 9-53	7.9	704	---	0.08	---	356	29	---	--	---	--	--	--	23	330	
		8.13	72	7- 7-53	7.5	650	---	0.14	---	351	24	---	--	---	--	--	--	31	286	
		3	66	8- 4-53	7.7	687	---	0.14	---	332	33	---	--	---	--	--	--	35	256	
		0.25	72	9- 8-53	7.6	446	284	0.14	0.6	220	11	39	5	52	7	34	8	31	158	
		0.12	68	10-14-53	8.3	503	---	0.16	---	193	14	---	--	---	--	--	--	31	204	
		------	--	10-22-53[c]	8.2	662	419	0.07	0.4	317	24	53	10	68	16	44	13	27	236[b]	
		0.25	64	11- 9-53	8.3	637	---	0.06	---	332	20	---	--	---	--	--	--	33	264	
		0.25	54	12- 7-53	8.0	730	---	0.08	---	344	21	---	--	---	--	--	--	30	279	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge, in second-feet	Temperature in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶) at 25°C	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO₃)	Chloride (Cl)	Sulfate (SO₄)	Nitrate (NO₃)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO₃, in ppm	Remarks
							STREAMS - (continued)													
S16735 82-31.2 -4.9	Chino Creek; at Pine Ave. bridge. (continued)	0.75	52	1-12-54	8.1	734	---	0.12	---	344	26	---	--	---	--	--	--	35	266	
		2	64	2- 9-54	7.9	823	---	0.16	---	368	33	---	--	---	--	--	--	30	302	
		2	63	3- 9-54	7.8	759	---	0.16	---	364	34	---	--	---	--	--	--	32	298	
		3	68	4- 6-54	7.8	880	---	0.18	---	381	44	---	--	---	--	--	--	33	327	
		3	72	5- 4-54	7.9	859	527	0.26	0.6	368	32	97	16	55	40	68	14	32	302	
		2	68	6- 9-54	7.9	796	---	0.22	---	315	27	---	--	---	--	--	--	33	254	CO_3 = 12 ppm.
		2	66	7- 1-54	8.0	684	---	0.08	---	307	27	---	--	---	--	--	--	31	271	
S16744 82-31.2 -3.8-3.9	Chino Creek, E. fork. S. of Chino; 800 feet W. of Pioneer Ave., on Pine Ave. at bridge. S.B.Co.F.C.D. sample point No. 772.	0.5	--	4-28-52[c]	7.9	900	712	0.08	0.6	461	22	165	Tr.	139	33	47	--	18	482	
S16759 [illegible] -3.3	Chino Creek. NW. of Corona; at Los Serranos Ave. bridge.	2	56	1-20-54	7.4	715	476	0.18	---	227	51	60	44	82	8	34	30	--	238[b]	
S18849 [illegible] -4.3-1.0	City Creek. SE. of San Bernardino; at Tippecanoe St.	39	--	1-18-52[e]	7.8	128	107	0.10	---	54	8	16	6	12	4	8	--	--	46[b]	
S18898 82-57.9 -4.3-4.0	City Creek. E. of San Bernardino; at Palm Ave. bridge.	10	--	12- 1-52	8.2	233	152	0.02	---	120	8	12	0	24	7	15	1	--	89[b]	
S18915 [illegible] -4.3-7.2	City Creek. N. of Highland; 4,600 feet N. of Highland Ave., 600 feet E. of City Creek Rd., at head of City Creek Water Co. canal, in NW. ¼, Sec. 27, T. 1 N., R. 3 W., S.B.B.&M. (Station S18905 in D.W.R. Bulletin No. 40-A). U.S.G.S. gaging station at sampling point since March 1, 1936. Prior to that date, gaging station was 1,300 feet downstream.	------	--	Oct., 1918[a]	---	---	---	----	---	127	10	19	0	28	9	19	--	28	107[b]	
		9.3	--	10-14-31[a]	---	238	---	0.05	---	122	7	13	0	24	7	17	--	29	86[b]	
		1.5	--	11-14-32[a]	---	252	---	0.08	---	128	5	12	0	25	8	19	--	30	95[b]	
		------	--	9- 7-48	---	378	---	0.05	---	169	10	--	0	39	--	27	--	--	---	
		------	--	2- 8-49	8.3	196	---	0.00	---	96	7	16	0	22	5	18	--	34	76[b]	
S18916 [illegible] -4.3-6.4	City Creek. N. of Highland; at Highland Ave. S.B.Co.F.C.D. sample point No. 752.	------	--	4- 8-52[c]	7.8	130	129	0.00	0.5	76	10	12	2	16	4	17	--	40	56	
		------	--	3-18-53[c]	8.4	203	130	0.09	0.4	98	5	9	0	22	8	14	2	25	89	CO_3 = 10 ppm.
S19441A 82-57.9 -3.3-5.3 -13.0-0.1	Cleghorn Canyon Creek. 0.1 mile S. of Cozy Dell; at NE. corner of U.S. Highway No. 66 bridge over Cleghorn Canyon Creek.	1.5	--	1-26-49	8.4	358	---	0.00	---	214	8	60	Tr.	58	16	30	--	24	211[b]	
S4564 [illegible] -1.5-3.4 -13.4	Cucamonga Creek. N. of Upland; 2.0 miles N. of Highland Ave., at Southern California Edison Co. power lines.	35	--	1-17-52	7.9	255	177	0.03	0.1	126	5	17	5	34	7	8	--	--	114[b]	
		4	--	1- 7-53[e]	7.4	303	170	0.20	---	174	8	14	6	46	7	10	2	--	144[b]	
		25	47	1-19-54	7.3	278	218	0.08	---	139	1	23	0	35	8	7	5	--	120[b]	
S18562 [illegible] -16.3	Day Creek. N. of Etiwanda; 2.0 miles N. of Highland Ave., near Southern California Edison Co. power lines.	20	--	1-17-52	8.0	269	133	0.02	0.0	147	5	9	10	41	6	5	--	--	127[b]	
		--	--	12-31-52	8.0	231	148	0.04	---	129	6	11	0	25	10	10	1	--	60[b]	
		7	--	1- 7-53[e]	7.3	279	128	0.10	---	172	8	7	4	46	8	6	2	--	148[b]	
S18831 [illegible] -4.[illegible]-4.4	East Twin Creek. N. of San Bernardino; 1.6 mile N. of 40th St., at U.S.G.S. gaging station in NE. ¼, Sec. 14, T. 1 N., R. 4 W., S.B.B.&M.	7	--	3-15-32[a]	---	359	---	0.29	---	128	16	59	0	26	8	44	--	50	98[b]	
		------	--	2- 8-49	8.2	372	---	0.42	---	123	17	78	Tr.	27	8	49	--	52	100[b]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

[illegible] station [illegible]	Location and description	[illegible]	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (Micro-mho at 25° C.)	Total dissolved solids, in ppm	Mineral constituents in parts per million: [illegible]	[illegible]	Bicarbonate (HCO_3)	Chloride (Cl)	Sulfate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
S19833 [illegible]	East Twin Creek. N. of San Bernardino; 50 feet N. of 40th St. S.B.Co. F.C.D. sample point No. 751.	----	--	4- 7-52°	7.6	280	216	0.12	0.9	102	15	45	1	22	7	31	--	45	82	
[illegible]	East Twin Creek. San Bernardino; at Base Line St.	[illegible]	--	1-18-52°	7.3	184	134	----	0.2	66	9	30	2	17	8	14	--	--	75[b]	
S15841A [illegible]	East Twin Creek. N. of San Bernardino; at culvert on N. side of private road 600 feet N. of junction with [illegible] Creek, [illegible]	------	--	9- 7-48	8.0	343	---	0.00	---	175	79	--	0	33	--	25	--	--	---	[illegible]
		------	--	1- 8-49	8.1	242	---	0.00	---	134	7	18	Tr.	28	9	20	--	28	107[b]	
S18366 [illegible]	Edgar Creek. N. of Beaumont; 1 mile SE. of Oak Glen Ranger Station, across road [illegible]	------	--	12- 1-48	8.0	245	---	0.00	---	153	2	19	4	36	11	11	--	14	131[b]	
S16807A [illegible]	Hamner Springs Creek. W. of Norco; near Auburndale Ave. bridge. S.B.Co. F.C.D. sample point No. 196.	------	--	11- 1-45°	7.6	483	291	0.16	---	249	22	19	56	62	18	30	--	[illegible]	225	
		------	--	[illegible]-51-50°	7.7	567	356	0.06	0.0	251	27	49	6	62	17	36	--	26	225	
		------	--	[illegible]-50°	8.1	588	374	0.35	0.0	228	38	39	6	67	14	35	--	24	225	CO_3 [illegible]
		------	--	[illegible]-50°	8.0	671	435	0.00	0.3	228	55	96	4	70	13	44	--	--	230	
		------	--	[illegible]-50°	7.7	609	388	0.10	0.0	232	46	46	7	58	18	30	--	[illegible]	216	CO_3 [illegible]
		------	--	[illegible]-51	7.9	556	348	0.06	0.3	237	37	25	10	59	12	[illegible]	--	31	[illegible]	
		------	--	[illegible]-51°	8.1	770	502	0.12	0.0	210	61	113	2	76	18	60	--	32	266	
		------	--	[illegible]	7.9	510	350	0.04	0.0	266	37	31	6	67	15	35	--	25	[illegible]	
		------	--	6- 9-52°	8.0	490	334	0.02	0.3	264	34	24	6	59	17	36	--	26	219	
		------	--	10-20-52°	8.1	847	588	0.14	0.2	403	43	105	6	95	32	72	6	30	367	
		------	--	1-26-53°	7.8	543	334	0.05	0.3	237	33	36	5	60	17	35	2	26	221	
		------	--	7-31-53°	7.8	614	384	0.11	0.7	246	47	47	6	61	19	44	2	29	229	
S16816 [illegible]	Hamner Springs Creek. W. of Norco; [illegible] sample No. 169.	-----	--	11-29-45°	7.9	837	489	0.00	---	379	74	34	27	87	21	55	--	27	305	
		------	--	6- 2-49°	7.2	654	392	0.39	0.0	312	48	30	2	75	18	43	--	27	260	
		------	--	5-31-50°	7.4	658	404	0.07	0.0	334	47	26	1	80	18	41	--	26	276	
		------	--	[illegible]-14-50°	7.7	640	413	[illegible]	[illegible]	377	47	27	3	70	20	[illegible]	--	25	257	
		------	--	[illegible]-14-51°	7.8	717	[illegible]	0.00	---	342	53	21	6	79	16	51	--	[illegible]	262	
		------	--	4-28-52°	7.6	640	442	0.06	0.1	342	54	28	4	84	17	50	--	--	260	
		------	--	6- 9-52°	7.7	630	422	0.02	0.5	293	54	28	8	72	17	47	--	29	252	
		------	--	1-26-53°	7.5	757	452	0.00	0.2	356	48	39	8	87	23	45	3	24	312	
		------	--	7-31-53°	7.8	588	257	0.04	0.6	210	59	34	Tr.	25	20	60	12	45	143	
S16816A [illegible]	Hamner Springs Creek. W. of Norco; E. of main buildings of Fuller Ranch. S.B.Co.F.C.D. sample point No. 474.	-----	--	5-31-50°	7.1	729	458	0.05	0.0	366	55	29	7	80	20	47	--	27	281	
		------	--	8-14-50°	7.2	705	450	0.22	0.2	381	53	17	7	78	20	44	--	26	274	
		------	--	2-14-51°	7.7	786	516	0.10	0.2	366	59	32	5	92	25	46	--	25	290	
		------	--	4-28-52°	7.7	710	487	0.02	0.1	386	61	26	4	97	18	57	--	29	314	
		------	--	6- 9-52°	7.8	730	498	0.10	0.3	371	63	28	8	102	12	59	--	30	327	
		------	--	1-26-53°	7.6	897	550	0.05	0.3	415	65	50	4	113	21	56	4	25	370	
		------	--	7-31-53°	7.7	643	412	0.09	0.6	320	34	26	13	66	20	44	5	27	248	
[illegible] 62-33.2 [illegible]	Horsethief Canyon Creek. S. of Corona, in Temescal Canyon; above [illegible] Hydroelectric.	0.5	--	6- 5-52°	7.6	267	165	0.00	---	114	16	1	1	24	4	20	--	--	76[b]	
S14846 62-[illegible] [illegible]	Indian Canyon Creek. S. of Corona, [illegible]; above Temescal Water Co.'s Hydroelectric.	0.5	--	6- 5-52°	7.6	340	203	Tr.	---	160	20	19	4	37	6	27	--	--	117[b]	
[illegible] 62-57.1 [illegible]	Lytle Creek, W. branch. Colton; at M St. culvert. S.B.Co.F.C.D. sample point No. [illegible].	------	--	2-25-48°	8.2	686	414	0.02	0.7	143	35	96	3	24	6	120	--	75	86	CO_3 = 33 ppm.
				12- 7-48°	8.0	622	397	0.25	0.6	256	25	84	4	39	12	93	--	58	145	
				2- 9-54°	8.1	477	295	0.00	0.4	195	24	46	3	13	5	88	3	77	51	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge, in second feet	Temperature in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25° C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Carbonate (CO3)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							STREAMS - (continued)													
S19459 [illegible]	Lytle Creek. NW. of San Bernardino; at intake of Southern California Edison Co.'s Fontana power plant and Fontana Union Water Co.'s diversion, 1.[illegible] miles NW. from Cajon Creek Rd., on E. side of Lytle Creek Canyon Rd. F.U.W. Co.'s gaging station at diversion since 1918.	------	--	3- 2-32[a]	---	327	---	0.02	---	180	0	24	1	51	12	7	--	8	177[b]	
		10	52	11-14-46	---	244	---	0.00	---	143	0	18	Tr.	41	7	7	--	10	131[b]	
		------	--	9- 7-48	---	310	---	----	---	171	6	--	Tr.	45	--	13	--	--	---	
		------	--	1-17-52	8.0	250	175	0.01	0.0	121	4	18	5	34	7	5	--	--	114[b]	
		15	--	4-14-52	8.2	230	---	0.02	---	159	2	17	2	51	7	7	--	9	156[b]	
		------	--	6-11-52	8.2	240	---	0.04	---	153	4	16	2	41	6	12	--	17	127[b]	
		------	--	9- 3-52	8.0	330	---	0.01	---	183	2	24	2	52	7	9	--	10	159[b]	
		4	--	1- 7-53[e]	6.7	249	126	0.10	---	136	5	12	6	38	7	7	2	--	109	
		------	--	4- 6-53	8.2	370	---	0.00	---	195	2	17	1	52	12	9	--	10	179[b]	
[illegible]	Lytle Creek water. NW. of San Bernardino; at tailrace of Southern California Edison Co.'s Fontana power plant, 150 feet NE. of Riverside Ave., 2.1 miles NW. of Highland Ave. Sample taken 4.6 miles from intake on Lytle Creek.	13.6	--	9-10-31[a]	---	350	---	0.12	---	183	0	21	Tr.	49	12	6	--	8	172[b]	
		44	--	9- 2-32[a]	---	354	---	0.03	---	186	0	24	Tr.	57	11	7	--	8	188[b]	
		25	57	8- 4-53	8.4	342	212	0.04	0.4	195	4	19	2	54	10	8	--	9	176[b]	
		15.5	54	11- 9-53	8.1	373	214	0.00	---	198	2	24	1	57	7	7	2	--	177[b]	
S18000 82-57.9 -1.[illegible]-0.7	Lytle Creek, E. branch. S. of San Bernardino; at Mill St. S.B.Co.F.C.D. sample point No. 894.	------	--	2- 9-53[c]	9.7	1,090	786	0.57	1.6	198	27	49	2	21	3	250	6	89	64	CO_3 = 216 ppm.
[illegible] 82-57.9 -1.9-0.1	Lytle Creek, E. branch. NE. of Colton; at junction with Warm Creek. S.B.Co.F.C.D. sample point No. 188.	------	--	9-11-46[c]	7.4	742	420	0.37	---	144	38	107	0	24	15	80	--	59	122	
		------	--	3- 7-47[c]	7.7	1,260	806	1.97	---	276	46	257	16	95	25	112	--	42	341	
		------	--	3- 4-48[c]	7.3	1,125	678	0.24	0.9	310	110	182	0	104	22	91	0	36	350	
		------	--	11-14-49[c]	7.5	782	486	----	0.3	356	38	88	6	77	13	66	--	37	245	
		------	--	12- 4-50[c]	7.7	629	416	0.02	0.3	300	25	53	0	82	16	32	--	20	271	
		------	--	3- 1-51[c]	7.7	420	270	0.13	0.0	176	15	41	0	18	5	55	--	64	68	
		------	--	4- 7-52[c]	8.1	1,110	745	0.34	0.7	303	207	82	0	64	11	176	--	65	206	
		------	--	2- 9-53[c]	9.1	916	642	0.39	0.4	298	26	68	1	32	8	188	7	77	110	CO_3 = 101 ppm.
		------	--	3-18-54[c]	8.0	767	504	0.26	0.6	346	26	80	Tr.	44	13	115	6	60	104	CO_3 = 5 ppm.
[illegible] 82-57.9 -1.[illegible]-2.[illegible]	Lytle Creek, E. branch. SE. of San Bernardino; at Rialto Ave. S.B.Co.F.C.D. sample point No. 972.	------	--	10-26-53[c]	8.0	458	285	0.00	0.3	234	5	45	8	66	13	13	3	11	218[b]	
S14825 [illegible] -15.3-[illegible]	Mayhew Canyon Creek. S. of Corona, in Temescal Canyon; at intake of Temescal Water Co.'s diversion.	------	--	6- 5-52[e]	7.8	370	216	0.10	---	171	14	25	3	30	14	23	--	--	133[b]	
[illegible] 82-31.2 -[illegible]	Mill Creek. NW. of Corona; above junction with Chino Creek. S.B.Co.F.C.D. sample point No. 788.	------	--	6- 9-52[c]	8.0	770	551	0.08	0.6	288	86	99	7	95	22	66	--	30	327	
		------	--	1-26-53[c]	7.8	1,053	666	0.11	0.6	346	86	144	4	112	29	60	6	24	398	
		------	--	7-31-53[c]	7.5	1,004	642	0.19	0.9	312	111	115	2	99	24	84	5	34	344	
[illegible] [illegible] -1.[illegible]-2.0	Mill Creek. NW. of Corona; at McCarty Rd. S.B.Co.F.C.D. sample point No. 1[illegible].	------	--	11-29-45[c]	8.2	638	385	0.00	---	342	33	23	17	66	18	40	--	18	234	
		------	--	11- 1-46[c]	7.7	595	370	0.00	---	317	25	22	--	72	14	45	--	29	235	
		------	--	6- 2-49[c]	7.6	581	363	0.56	0.1	320	25	26	1	66	19	36	--	24	242	
		------	--	5-31-50[c]	7.7	602	390	0.07	0.0	337	25	31	4	63	20	40	--	26	240	
		------	--	7-25-50[c]	8.3	716	426	0.37	0.0	310	30	30	2	69	17	50	--	31	242	CO_3 = 20 ppm.
		------	--	9-11-51[c]	8.1	599	392	0.00	Tr.	310	29	32	4	69	17	35	0	24	242	
		------	--	4-28-52[c]	8.1	960	716	0.70	0.5	468	44	144	6	105	32	101	0	36	393	
		------	--	10-31-52[c]	8.3	947	605	0.09	0.4	386	46	79	1	86	31	92	8	36	343	CO_3 = 36 ppm.
S16260 82-69.6 -7.[illegible]	Mill Creek. NE. of Redlands; at tailrace of Southern California Edison Co.'s power plant No. 2, 200 feet SE. of Mill Creek Rd., 0.6 mile NE. of Bryant St. Sample taken 2.7 miles from intake on Mill Creek, opposite stream mile 5.2, 0.2 mile below U.S. G.S. gaging station.	6.1	--	7- 3-31[a]	---	349	---	----	---	177	--	35	1	50	11	13	--	14	170[b]	
		10	45	11-14-46	---	196	---	0.10	---	107	2	18	Tr.	30	7	6	--	10	104[b]	
		------	50	1-20-47	---	199	---	0.00	---	117	0	10	Tr.	30	8	5	--	9	108[b]	
		------	--	8-23-50	8.3	250	---	0.00	---	140	0	25	1	38	9	12	--	16	122[b]	
		------	--	8-20-51	8.3	270	---	0.04	---	152	5	9	2	24	10	17	--	28	101[b]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge in second feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO₃)	Chloride (Cl)	Sulphate (SO₄)	Nitrate (NO₃)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO₃, in ppm	Remarks
							STREAMS - (continued)													
S18260A 82-69.6 [illegible]	Mill Creek. NE. of Redlands; at Mill Creek Rd., upstream from Southern California Edison Co.'s Mill Creek Power Plants Nos. 2 and 3.	6	--	12-31-52	8.1	559	384	0.04	---	193	7	137	0	82	18	15	4	--	279[b]	
S18956 [illegible] -5.8	Plunge Creek. N. of Redlands; at [illegible] station [illegible],000 feet N. of Santa Ana Canyon (Greenspot) Rd.	15 ------	-- --	3-16-32[a] 2- 8-49	--- 8.3	131 206	--- ---	0.02 0.04	--- ---	64 108	5 6	5 19	0 0	15 22	5 5	12 23	-- --	31 39	58[b] 76[b]	
S18959 82-63.2 -4.9	Plunge Creek. N. of Redlands; at Santa Ana Canyon (Greenspot) Rd. S.B.Co.F.C.D. sample point No. 768.	50 20	-- --	1-18-52[c] 4-28-52[c]	7.9 7.5	130 120	57 134	---- 0.10	0.2 0.3	49 63	7 9	30 20	4 0	12 16	10 4	9 9	-- 1	-- 27	71[b] 54	
S18919 82-63.2 -1.9-0.9	Plunge Creek, N. branch. N. of Redlands; 30 feet E. of Orange Ave. bridge, 300 feet S. of 3rd St. S.B. [illegible].F.C.D. sample point No. 7[illegible].	------	--	4- [illegible]-52[c]	8.7	280	231	6.30	0.6	98	18	24	10	28	7	30	--	39	99	CO_3 = 11 ppm.
S4521 82-31.2 [illegible]	San Antonio Creek. N. of Upland; at bridge crossing N. of Lower San Antonio Guard Station near Stellard Canyon.	70 6 22	-- -- 48	1-17-52 12-31-52 1-27-54	8.1 8.1 7.3	363 420 395	237 259 280	0.01 0.02 0.10	0.1 --- ---	163 224 156	5 6 4	41 37 67	5 0 4	47 58 49	16 18 16	7 8 9	-- 2 4	-- -- --	183[b] 219[b] 188[b]	
S4522 82-31.2 [illegible]	San Antonio Creek. N. of Upland; at mouth of San Antonio Canyon, near [illegible] Co.'s [illegible] Spring station.	0.29 6.4	-- --	12- 5-51[d] 3- 6-52[e]	7.8 8.3	330 398	--- 110	0.08 0.00	0.5 ---	144 175	5 6	36 51	10 1	38 50	13 17	12 8	1 --	15 --	148 ---	CO_3 = 8 ppm.
S5628 [illegible] -10.9-16.5	San Antonio Creek. N. of Upland; from [illegible] Southern California Edison Co.'s Sierra Power Plant, opposite stream mile 14.3, 6.4 miles N. of Base Line Rd. Intake is 2.2 miles upstream and U.S.G.S. gaging station 0.5 mile upstream mile 15.01.	8.2 [illegible] 8	-- -- 50	9-10-31[a] 9-19-32[a] 11-15-46	--- --- ---	316 276 255	--- --- ---	Tr. 0.02 0.00	--- --- ---	165 156 159	0 0 0	14 10 13	Tr. Tr. Tr.	45 42 45	10 7 8	3 6 1	-- -- --	4 9 1	154[b] 134[b] 145[b]	
S18874 82-57.9 -7.5-2.0	Sand Creek. NE. of San Bernardino; 500 feet W. of Victoria St., 650 feet N. of Lemon St.	------	--	1- 4-49	8.0	426	---	0.04	---	2[illegible]	22	42	0	48	15	32	--	28	182[b]	
S18876 82-57.9 -7.5-1.1	Sand Creek. NE. of San Bernardino; near railroad crossing at end of Victoria Ave.	1	--	12-31-52	8.1	476	306	0.02	---	249	23	32	0	50	16	36	2	--	191[b]	
S15822 82-28.2	Santa Ana River. W. of Corona; at Riverside-Orange County line in lower Santa Ana Canyon, 2.8 miles below [illegible] S.B.C.F.C.D. gaging station at this point during 1919-42 and 1945 to date.	570 53 141 440 ------ 35 111 590 490 209 119 62 40 ------ 38 33 ------ 42 62 67 ------ ------ ------ ------ 85	-- -- -- -- -- 64 48 55 60 72 73 76 81 66 81 80 72 70 62 49 64 65 86 81 62	3- 2-19[a] 9-15-31[a] 3- 9-32[a] 1-17-33[a] 2-29-36[f] 10- 1-36[f] 1-18-37[f] 2-16-37[f] 3-17-37[f] 4-21-37[f] 5-19-37[f] 6-17-37[f] 7-15-37[f] 8-12-37 8-19-37[f] 9-15-37[f] 10- 6-37 10-13-37[f] 11-24-37[f] 12-20-37[f] 2-21-38 3-17-38[f] 5-31-38 8-30-38 11-17-38[f]	--- 7.8	--- 826 827 735 --- --- --- --- --- --- --- --- --- 924 --- --- --- --- --- --- --- --- --- --- --- ---	--- ---	--- 0.17 0.15 0.12 ---- ---- ---- ---- ---- ---- ---- ---- ---- 0.12 ---- ---- ---- 0.14 ---- ---- ---- 0.20 ---- 0.15 0.13 ----	--- ---	250 262 302 220 306 2[illegible] 309 193 231 205 220 256 270 270 268 231 276 277 296 316 282 250 320 277 325	50 91 75 76 75 78 78 53 32 48 65 87 91 73 89 83 85 83 81 80 77 63 90 97 86	52 64 88 71 80 63 88 143 77 66 71 83 89 84 86 82 70 77 74 82 83 79 213 88 97	9 9 6 7 5 5 5 5 5 5 5 5 5 7 5 5 10 5 5 5 5 10 5 0 2 5	69 74 89 68 87 70 92 77 63 64 79 90 82 88 81 77 78 85 86 84 89 53 112 76 93	20 19 25 18 20 10 20 20 13 12 14 21 26 20 24 24 20 21 26 21 16 18 34 22 17	36 24 63 64 65 77 66 50 48 44 47 50 60 64 62 61 65 35 52 74 66 78 92 81 86	-- --	23 37 30 36 32 44 32 28 33 31 29 26 30 32 31 31 34 18 26 35 33 45 32 39 38	255[b] 263[b] 325[b] 244[b] 300 216 312 275 211 209 255 311 312 302[b] 301 291 277[b] 299 322 296 288[b] 206 420[b] 280[b] 302	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge in second feet	Temperature in F	Date and time sampled (PST)	pH	Conductivity (EC x 10^6 at 25 C)	Total dissolved solids	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							TREATED - (continued)													
[illegible] 32-29.2	Santa Ana River. W. of Corona; at Riverside-Orange County line in lower [illegible] Ana [illegible], [illegible] below [illegible] (continued)	------	65	11-[illegible]-53	---	[illegible]	---	[illegible]	---	281	103	90	7	89	21	76	--	35	360[b]	
		129	54	[illegible]-6-3[illegible][f]	7.7	---	---	----	---	312	82	99	5	96	18	74	--	34	314	
		------	64	[illegible]-7-3[illegible]	---	[illegible]	---	[illegible]	---	301	94	130	6	100	21	85	--	36	336[b]	
		44	64	[illegible]-16-[illegible][f]	7.7	---	---	----	---	190	93	94	5	82	16	53	--	30	271	
		------	64	[illegible]	---	[illegible]	---	----	---	188	85	81	2	86	22	69	--	33	300[b]	
		------	65	[illegible]	---	[illegible]	---	----	---	314	82	86	6	91	22	69	--	32	313[b]	
		34	62	3-25-40[1]	8.2	---	---	----	---	309	90	84	5	112	20	48	--	22	302	
		------	78	6-11-40	---	[illegible]	---	----	---	256	92	84	4	71	19	69	--	37	252[b]	
		48	73	9-27-40[f]	8.1	---	---	----	---	259	86	89	5	68	20	81	--	41	252	
		------	53	[illegible]	[illegible]	---	---	----	---	329	39	98	5	115	23	21	--	11	382	
		342	76	[illegible]-14-41[1]	[illegible]	---	---	----	---	215	39	85	5	72	15	36	--	25	241	
		------	64	[illegible]	[illegible]	---	---	----	---	296	73	106	5	96	24	51	--	25	305	
		------	62	3- 4-42	[illegible]	[illegible]	---	----	---	290	66	135	5	88	19	83	--	38	298	
		------	59	4-11-47	---	764	---	[illegible]	---	314	73	84	6	90	19	71	--	34	303[b]	
		------	63	[illegible]	---	[illegible]	---	.4[illegible]	---	303	82	77	9	87	20	77	--	36	300[b]	CO_3 = 2 ppm.
		------	62	1-[illegible]-47	---	[illegible]	---	.3[illegible]	---	304	76	81	12	88	21	68	--	33	306[b]	
		------	--	3- 8-48	---	744	---	.1[illegible]	---	307	74	86	9	90	21	69	--	33	311[b]	
		------	--	11- 3-48	---	763	---	0.10	---	292	76	74	9	86	20	65	--	32	297[b]	
		------	--	[illegible]	8.5	735	---	0.38	---	292	66	95	6	86	18	66	--	33	[illegible][b]	
		34	--	[illegible]	8.6	973	---	0.16	---	219	80	175	--	86	13	106	--	46	268[b]	CO_3 = 15 ppm.
		------	--	3- 2-50	8.5	760	---	0.34	---	305	78	83	10	92	23	67	--	31	305[b]	
		------	--	[illegible]	8.3	870	---	0.15	---	247	82	161	12	88	24	83	--	36	314[b]	
		------	--	[illegible]-51	8.3	750	---	0.00	---	281	78	95	15	89	22	70	--	33	313[b]	
		------	--	3- 9-51	8.4	790	---	0.20	---	299	78	83	14	89	20	78	--	36	305[b]	
		------	--	[illegible]	7.0	1,030	---	0.09	---	214	82	205	12	80	25	102	--	42	305[b]	
S15850A [illegible]	Santa Ana River. W. of Corona; 1,100 feet S. of Prado Rd. S.B.Co.F.C.D. [illegible]	------	--	[illegible]	---	---	---	----	---	---	82	87	--	---	--	---	--	--	---	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.1	271	80	83	11	94	22	48	--	26	302	
S15851 [illegible]	Santa Ana River. W. of Corona; at [illegible], [illegible] below Prado Dam, 200 feet below State Highway No. 71 bridge over river. [illegible]	[illegible]	--	[illegible]	---	799	---	0.11	---	290	80	65	6	84	22	61	--	31	300[b]	
		[illegible]	--	[illegible]	---	800	---	0.14	---	247	91	63	6	71	19	67	--	36	256[b]	
		[illegible]	[illegible]	[illegible]	---	726	---	0.30	---	220	83	119	Tr.	73	21	82	--	40	269[b]	
		------	4[illegible]	1-20-47	---	725	---	0.00	---	284	56	79	9	81	18	60	--	32	276[b]	
		------	--	3- 2-50	6.8	775	---	0.44	---	305	80	90	12	91	22	72	--	33	318	
		------	--	8-23-50	8.3	860	---	0.14	---	244	82	115	7	85	23	87	--	38	327[b]	
		[illegible]	[illegible]	4-[illegible]-51	8.2	938	---	----	---	251	84	---	--	---	--	---	--	--	308	
		[illegible]	[illegible]	[illegible]	8.2	953	588	0.09	---	246	83	139	5	86	23	81	--	--	310[b]	
		[illegible]	[illegible]	[illegible]	8.2	975	---	----	---	234	89	---	--	---	--	---	--	--	303	
		[illegible]	[illegible]	[illegible]	8.2	971	---	----	---	210	86	---	--	---	--	---	--	--	314	
		------	[illegible]	[illegible]-51	8.4	790	---	0.20	---	299	78	83	14	89	20	78	--	36	305[b]	
		[illegible]	[illegible]	11-16-51	8.1	985	---	----	---	215	85	---	--	---	--	---	--	--	324	
		[illegible]	[illegible]	11- 6-51	8.1	990	---	----	---	218	97	---	--	---	--	---	--	--	314	
		[illegible]	[illegible]	[illegible]	8.2	917	---	----	---	217	85	---	--	---	--	---	--	--	297	
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	---	[illegible]	[illegible]	---	--	---	--	---	--	--	337	
		[illegible]	--	[illegible]	7.9	434	---	0.20	0.1	136	28	60	6	42	11	27	7	27	150	
		[illegible]	[illegible]	[illegible]	8.0	881	---	0.11	---	280	93	---	--	---	--	---	--	--	344	
		[illegible]	[illegible]	[illegible]	7.7	382	---	----	---	127	31	---	--	---	--	---	--	--	135	
		[illegible]	[illegible]	4-[illegible]	7.8	917	---	----	---	281	95	---	--	---	--	---	--	--	346	
		[illegible]	[illegible]	5- 5-52	8.6	957	---	0.17	0.4	232	84	164	6	92	24	75	5	33	328	CO_3 = 14 ppm.
		[illegible]	[illegible]	6-16-52	8.3	884	---	----	---	234	92	---	--	---	--	---	--	--	[illegible]	
		[illegible]	[illegible]	[illegible]	8.1	884	---	----	---	237	98	---	--	---	--	---	--	--	342	
		[illegible]	[illegible]	[illegible]	8.2	917	---	----	---	244	99	---	--	---	--	---	--	--	328	
		[illegible]	[illegible]	[illegible]	8.1	968	---	----	---	234	115	---	--	---	--	---	--	--	360	
		[illegible]	[illegible]	1-[illegible]	7.9	976	615	0.10	0.6	217	89	186	6	82	30	80	4	--	328	
		[illegible]	[illegible]	11-21-52	8.2	1,024	---	----	---	222	98	---	--	---	--	---	--	--	324	
		[illegible]	[illegible]	1-[illegible]	7.9	893	---	----	---	315	95	---	--	---	--	---	--	--	358	
		[illegible]	[illegible]	12-21-52	7.5	738	---	----	---	239	73	---	--	---	--	---	--	--	---	
		[illegible]	[illegible]	1- 6-53	8.1	958	---	----	---	318	95	---	--	---	--	---	--	--	345	
		[illegible]	[illegible]	[illegible]	8.0	942	---	----	---	317	97	---	--	---	--	---	--	--	343	
		[illegible]	[illegible]	3-10-53	8.3	923	---	----	---	232	88	---	--	---	--	---	--	--	---	
		[illegible]	[illegible]	4- [illegible]	8.4	896	---	0.22	---	227	92	---	--	---	--	72	--	--	336	CO_3 = 12 ppm.
		[illegible]	61	5- 5-53	8.1	968	591	0.15	---	303	104	105	14	102	22	80	4	--	345[b]	CO_3 = 10 ppm.
		[illegible]	[illegible]	6- 9-53	7.7	845	---	0.20	---	317	104	---	--	---	--	---	--	36	336	
		4	75	7- 7-53	7.6	872	---	0.22	---	266	95	---	--	---	--	---	--	38	290	
		[illegible]	[illegible]	3- 4-53	7.7	877	---	0.14	---	188	88	---	--	---	--	---	--	38	311	CO_3 = 12 ppm.

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge, in second-feet	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							TH. ALL - (continued)													
[illegible]	Santa Ana River at [illegible] gaging station, below Prado Dam. (continued)	118	77	9- 8-53[1]	7.4	990	630	0.14	0.7	205	85	212	4	83	36	90	4	35	355	
		131	64	10-14-53[1]	8.3	1,006	---	0.14	---	1[illegible]	[illegible]	---	--	--	--	---	--	36	339	CO_3 = 12 ppm.
		135	61	11- 9-53[1]	8.1	914	---	0.14	---	224	85	---	--	--	--	---	--	39	320	
		60	50	12- 7-53	8.2	974	---	0.18	---	264	102	---	--	--	--	---	--	36	330	
		64	52	1-12-54	8.2	990	---	0.22	---	290	100	---	--	--	--	---	--	35	341	CO_3 = 19 ppm.
		650	53	1-20-54	7.4	568	376	0.14	---	185	43	67	6	51	15	42	8	--	189[b]	
		92	61	2- 9-54	8.1	987	---	0.22	---	315	93	---	--	--	--	---	--	32	341	CO_3 = 17 ppm.
		159	59	3- 9-54[1]	8.1	982	---	0.24	---	227	87	---	--	--	--	---	--	36	322	CO_3 = 19 ppm.
		136	66	4- 6-54[1]	8.2	980	---	0.16	---	281	89	---	--	--	--	---	--	37	320	
		142	64	5- 4-54[1]	8.2	984	630	0.18	0.6	232	83	192	7	62	41	85	6	36	323	
		215	66	6- 9-54[1]	8.2	1,016	---	0.22	---	183	79	---	--	--	--	---	--	37	316	CO_3 = 14 ppm.
		209	66	7- 1-54[1]	8.2	862	---	0.16	---	183	81	---	--	--	--	---	--	38	323	CO_3 = 10 ppm.
[illegible]	Santa Ana River. NW. of Corona; at [illegible] Rd. U.S.G.S. [illegible] gaging station [illegible]	------	--	11-[illegible]-51[g]	---	700	---	----	---	[illegible]14	66	53	--	71	14	40	--	27	235[b]	
		------	--	11-[illegible]-45[c]	8.4	933	[illegible]	0.[illegible]	---	[illegible]	95	95	43	92	20	72	--	34	314	CO_3 = 9 ppm.
		------	--	10-31-46[c]	7.9	834	523	0.75	---	288	79	58	39	91	20	68	--	32	308	
		------	64	10-30-47	---	730	---	0.40	---	298	80	70	13	84	19	64	--	32	288[b]	
		------	--	6- 2-49[c]	8.2	830	511	0.47	0.3	261	87	74	11	91	22	62	--	30	315	CO_3 = 17 ppm.
		------	--	10-26-49[hi]	8.5	971	---	0.16	---	183	87	158	--	81	10	114	--	50	244[b]	CO_3 = 33 ppm.
		------	--	5-13-50[ci]	7.9	955	633	0.23	0.1	244	91	184	4	84	27	77	--	34	320	
		------	--	7-25-50[ci]	8.3	951	628	0.40	0.2	216	87	158	2	86	23	80	--	36	310	CO_3 = 18 ppm.
		------	--	11- 6-50[c]	8.0	812	541	0.13	0.2	259	80	71	17	82	19	48	--	27	282	CO_3 = 10 ppm.
		------	--	9-11-51[c]	8.0	837	564	0.10	0.3	266	80	100	10	85	20	69	--	34	296	
		------	--	6- 9-52[c]	8.4	830	580	0.16	0.8	278	108	89	4	97	20	73	--	34	323	CO_3 = 5 ppm.
		------	--	1-26-53[c]	8.1	912	554	0.15	0.5	300	92	83	10	99	24	60	5	27	344	
		------	--	7-21-53[ci]	8.0	980	639	0.19	0.9	210	86	208	4	78	29	90	5	38	315	
S16807 [illegible]	Santa Ana River. NW. of Corona; at [illegible] Ave. (River St.) [illegible] [illegible] sample [illegible] station [illegible] feet upstream since 1920.	84	--	3- 9-32[a]	---	728	---	0.12	---	284	73	43	6	78	21	56	--	30	281[b]	
		43	--	9-15-32[a]	---	646	---	0.12	---	220	71	40	6	65	17	59	--	39	207[b]	
		------	73	6-17-47	---	[illegible]	---	0.[illegible]	---	[illegible]	41	31	7	65	14	41	--	39	220[b]	
		------	70	10-30-47	---	548	---	0.20	---	[illegible]	47	37	10	68	15	45	--	29	222[b]	
		------	--	3- 8-48	---	694	---	0.10	---	273	71	63	12	81	17	61	--	33	272[b]	
		------	--	11- 3-48	---	578	---	0.10	---	270	50	39	8	71	15	50	--	31	239[b]	
		------	--	10-26-49[hi]	8.6	920	---	0.26	---	192	82	158	—	86	8	98	--	46	248[b]	CO_3 = 15 ppm.
		------	--	3- 2-50	8.0	670	---	0.28	---	275	67	68	11	81	16	61	--	33	268[b]	
		------	--	6-13-50[ci]	7.9	864	632	0.53	0.3	195	81	191	14	79	23	82	--	38	290	CO_3 = 13 ppm.
		------	--	7-25-50[ci]	8.4	988	637	0.37	0.2	190	85	163	3	84	23	80	--	36	304	CO_3 = 15 ppm.
		------	--	8-28-50[i]	8.4	550	---	0.10	---	232	66	126	6	71	19	69	--	37	256[b]	
		------	--	9-13-50[ci]	8.2	745	479	0.00	0.2	253	67	104	6	76	18	81	--	40	264	CO_3 = 13 ppm.
		------	--	11- 6-50[c]	8.0	672	420	0.03	0.3	246	58	40	13	72	15	40	--	26	244	CO_3 = 12 ppm.
		------	--	1-16-51	8.2	670	---	0.04	---	269	71	64	16	83	18	66	--	34	281[b]	
		------	--	2-14-51[c]	8.0	686	443	0.11	---	278	57	42	12	77	14	54	--	32	250	
		------	--	3- 9-51	8.5	600	---	0.05	---	275	43	34	11	70	15	44	--	29	237[b]	
		------	--	8-14-51[i]	8.3	960	---	0.06	---	214	82	191	4	77	23	81	--	38	287[b]	
		------	--	8-22-51[ci]	8.5	911	590	0.14	0.1	193	76	192	3	78	23	80	--	38	290	
		------	--	11- 6-51[i]	8.4	780	---	0.32	---	217	78	185	6	78	21	84	--	39	281[b]	
		------	--	3-17-52	7.8	670	---	0.13	---	250	64	74	9	77	17	58	--	33	262[b]	
		------	--	4-28-52[ci]	7.8	850	614	0.16	0.4	217	92	159	9	87	21	78	--	36	303	
		------	--	6- 9-52[c]	8.3	780	542	0.16	0.5	276	97	72	13	94	17	66	--	32	305	CO_3 = 10 ppm.
		100	72	6-16-52[i]	8.1	960	---	0.11	---	213	85	213	6	84	25	90	--	38	313[b]	
		------	--	10-20-52[ci]	8.0	847	587	0.33	0.3	214	81	176	8	85	22	79	5	36	305	
		------	--	3-10-53[i]	8.2	890	---	0.12	---	226	82	167	8	78	25	81	--	37	298[b]	
		30	82	7- 7-53	8.0	685	425	0.08	0.3	229	71	53	6	64	20	56	--	34	242[b]	
		------	--	7-31-53[ci]	7.9	919	628	----	0.9	210	81	191	4	76	27	84	4	37	301[b]	
		110	64	10-14-53[i]	7.8	991	655	0.15	0.7	201	89	226	2	86	27	92	5	38	328[b]	
S16845 [illegible]	Santa Ana River. N. of Norco; at Hamner Ave. bridge. U.S.G.S. gaging station [illegible] feet downstream since [illegible].	25	--	9-15-32[a]	---	719	---	0.18	---	214	85	43	7	58	16	67	—	41	211[b]	
		------	--	11-[illegible]-45[c]	8.4	850	463	0.22	---	290	82	56	15	90	17	58	--	30	295	CO_3 = 16 ppm.
		------	--	10-31-46[c]	8.0	948	559	0.36	---	262	83	61	29	93	19	73	--	33	312	CO_3 = 16 ppm.
		------	77	6-17-47	---	848	---	0.60	---	306	89	67	11	84	18	72	--	35	284[b]	
		------	68	10-30-47	---	730	---	0.40	---	291	88	66	16	84	18	69	--	35	284[b]	
		------	--	3- 8-48	---	735	---	0.10	---	284	82	72	12	84	19	62	--	32	288[b]	
		------	--	11- 3-48	---	752	---	0.20	---	284	80	66	12	85	17	71	--	35	282[b]	
		------	--	3-10-49	8.4	719	---	0.34	---	273	61	86	7	84	16	60	--	32	278[b]	
		------	--	6- 2-49[c]	8.0	833	513	0.57	0.3	239	90	72	8	89	23	64	--	30	316	CO_3 = 24 ppm.

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge, in second-feet	Temperature in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							STREAMS - (continued)													
S16[illegible] [illegible]	Santa Ana River at Hamner Ave. bridge. (continued)	------	--	5-31-50[c1]	7.8	949	645	0.27	0.3	220	86	202	4	81	33	88	--	36	340	
		------	--	7-25-50[c1]	8.2	964	641	0.35	0.1	200	90	178	5	85	23	80	--	36	306	CO_3 = 10 ppm.
		------	--	11- 6-50[c]	8.0	895	562	0.26	0.3	271	93	70	18	91	19	46	--	24	305	CO_3 = 12 ppm.
		------	--	1-16-51	8.2	710	---	0.08	---	275	82	71	18	84	18	78	--	34	284[b]	
		------	--	2-14-51[c]	7.9	867	565	0.29	0.3	290	90	69	16	88	14	78	--	38	280	
		------	--	3- 9-51	8.5	820	---	0.20	---	287	82	75	17	90	18	72	--	35	299[b]	
		------	--	8-14-51[1]	8.2	1,050	---	0.10	---	195	85	228	5	80	24	92	--	40	299[b]	
		------	--	9-11-51[c]	5.9	900	568	0.04	0.3	288	96	83	11	89	21	68	--	32	308	
		------	--	11- 6-51[1]	8.4	960	---	0.16	---	217	89	224	5	83	25	95	--	40	310[b]	
		------	--	3-17-52	7.7	770	---	0.17	---	256	85	95	11	84	18	68	--	34	284[b]	
		------	--	6- 9-52[c]	8.1	980	606	0.13	0.6	303	113	94	9	103	20	84	--	35	340	
		100	72	6-16-52[1]	8.0	990	---	0.11	---	213	89	222	7	86	25	97	--	40	318[b]	
		------	--	12- 9-52	8.0	970	---	0.22	---	323	119	99	13	104	23	93	--	36	355[b]	
		------	--	1-26-53[c]	8.1	1,000	625	0.20	0.6	314	112	93	13	109	22	72	5	30	363	
		------	--	3-10-53[1]	8.0	970	---	0.18	---	214	89	204	8	82	29	92	--	38	324[b]	
		30	82	7- 7-53	8.0	945	489	0.17	0.6	265	110	96	8	84	25	86	--	37	313[b]	
		------	--	7-31-53[c1]	7.9	1,004	687	----	0.9	200	90	219	4	75	30	96	4	40	311	
		110	64	10-14-53[1]	8.0	1,000	671	0.17	0.5	195	92	228	4	84	28	94	6	38	325[b]	
S16[illegible] [illegible]	Santa Ana River. NE. of Norco; at foot of Etiwanda Ave. U.S.Geo.S.C.D. sample point No. 172.	------	--	11-29-45[c]	8.5	872	503	0.16	---	305	86	62	26	90	19	69	--	33	301	CO_3 = 10 ppm.
		------	--	6-13-50[c1]	8.0	957	638	0.44	0.3	190	83	193	10	80	23	83	--	38	298	CO_3 = 10 ppm.
		------	--	7-25-50[c1]	8.1	950	616	0.31	0.3	190	85	171	7	83	23	78	--	36	300	CO_3 = 10 ppm.
		------	--	11- 6-50[c]	8.1	883	546	0.20	0.3	237	89	68	17	88	19	57	--	29	296	CO_3 = 24 ppm.
		------	--	2-14-51[c]	7.9	855	539	0.25	0.2	294	86	66	17	87	14	67	--	23	274	
		------	--	8-22-51[c1]	8.9	990	639	0.26	0.1	176	87	230	2	81	25	94	--	40	304	
		------	--	6- 9-52[c1]	8.3	830	625	0.15	0.7	207	97	168	7	94	22	92	--	38	325	CO_3 = 10 ppm.
		------	--	1-26-53[c]	8.1	964	594	0.15	0.7	309	96	93	16	104	24	60	5	26	357	
		------	--	7-31-53[c1]	7.7	980	658	0.17	0.9	185	82	225	5	70	32	90	4	38	305	
S16933 [illegible]	Santa Ana River. NW. of Arlington; at Jedley Rd. bridge. S.B.Co.F.C.D. sample point No. 4[illegible]. U.S.G.S. gaging station at downstream side of bridge since 1929.	------	55	1-20-47	---	685	---	0.00	---	268	50	79	12	81	17	53	--	30	272[b]	
		------	75	4-14-47	---	752	---	0.30	---	302	77	76	7	86	18	60	--	35	289[b]	
		------	77	6-17-47	---	840	---	0.50	---	310	77	76	11	90	19	65	--	32	303[b]	
		------	70	10-30-47	---	740	---	0.20	---	308	82	74	13	90	20	70	--	33	307[b]	
		------	--	3- 9-48	---	758	---	0.10	---	296	78	80	9	90	20	68	--	32	307[b]	
		------	--	11- 3-48	---	769	---	0.14	---	290	83	71	16	89	18	68	--	34	296[b]	
		------	--	2-21-49	8.4	720	---	0.34	---	286	78	83	7	89	19	67	--	33	301[b]	
		------	--	3- 2-50	8.1	770	---	0.34	---	287	82	81	14	90	19	71	--	34	303[b]	
		------	--	6-13-50[c1]	8.0	934	665	0.17	0.5	184	84	211	3	76	27	87	--	39	300	CO_3 = 10 ppm.
		------	--	7-25-50[c1]	8.2	969	644	0.30	0.2	184	86	194	4	82	25	83	--	37	309	CO_3 = 10 ppm.
		------	--	8-28-50[1]	8.3	910	---	0.15	---	201	85	218	7	83	25	90	--	39	310[b]	
		------	--	9-13-50[c1]	8.1	894	581	0.08	0.5	243	91	162	10	84	23	78	--	36	304	
		------	--	11- 6-50[c]	7.9	894	570	0.15	0.3	283	89	74	22	93	19	58	--	33	294	CO_3 = 7 ppm.
		------	--	1-16-51	8.1	730	---	0.04	---	287	74	79	19	88	20	67	--	33	302[b]	
		------	--	1-23-51	7.9	800	---	0.07	---	293	74	79	20	88	19	64	--	31	298[b]	
		------	--	2-13-51[c]	8.1	870	570	0.18	0.5	273	89	73	17	93	15	67	--	33	294	CO_3 = 14 ppm.
		------	--	3- 9-51	8.2	850	---	0.08	---	305	78	79	18	96	21	73	--	33	326[b]	
		101	68	4-18-51	7.6	992	---	----	---	212	85	---	--	---	--	--	--	--	311	
		112	68	5-16-51[1]	8.2	1,010	624	0.07	---	205	86	206	5	85	26	90	--	--	319[b]	
		113	70	6-19-51[1]	8.2	1,016	---	----	---	200	90	---	--	---	--	--	--	--	326	
		110	77	7-18-51[1]	8.2	1,020	---	----	---	180	88	---	--	---	--	--	--	--	318	
		137	76	8-14-51[1]	8.0	1,050	---	0.08	---	183	89	239	5	78	24	96	--	40	294[b]	
		------	--	8-22-51[c1]	8.1	1,010	686	0.12	0.1	176	86	235	5	79	27	95	--	40	310	
		115	75	9-18-51[1]	8.2	---	---	----	---	---	--	---	--	--	--	--	--	--	---	
		115	68	10-16-51[1]	8.1	1,021	---	----	---	193	88	---	--	--	--	--	--	--	322	
		115	61	11- 6-51[1]	8.2	1,029	---	----	---	197	97	---	--	--	--	--	--	--	322	
		16	54	12- 5-51[1]	7.7	1,026	---	----	---	192	88	---	--	--	--	--	--	--	333	
		------	59	1- 8-52	8.0	917	---	----	---	305	87	---	--	--	--	--	--	--	335	
		78	54	2-18-52[1]	7.9	892	---	0.11	---	240	87	---	--	--	--	--	--	--	324	
		97	63	3-17-52	7.8	844	---	----	---	271	76	---	--	--	--	--	--	--	282	
		108	68	4-14-52[1]	7.7	850	---	----	---	232	81	---	--	--	--	--	--	--	310	
		100	66	5- 5-52[d1]	9.0	892	631	0.12	---	205	89	203	11	84	27	80	4	--	321[b]	
		------	--	6- 9-52[c1]	8.2	900	656	0.12	0.6	168	90	226	5	89	24	96	--	40	320	
		100	72	6-16-52[1]	8.1	884	---	----	---	207	88	---	--	--	--	--	--	--	322	
		98	73	7-14-52[1]	8.0	909	---	----	---	193	152	---	--	--	--	--	--	--	320	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge in second-feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10^6 at 25°C)	Total dissolved solids, in ppm	Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)													
[illegible]	Santa Ana River, at Pedley Rd. bridge. (continued)	95	70	8-12-52[1]	8.1	938	---	----	---	205	91	---	--	---	--	--	--	--	329	
		93	77	9- 9-52[1]	8.1	1,016	---	----	---	186	107	---	--	---	--	--	--	--	331	
		90	72	10-15-52[1]	7.8	1,000	652	0.08	0.6	183	85	229	4	80	27	85	4	--	311[b]	
		------	--	10-20-52[c1]	8.2	977	652	0.18	0.4	173	87	233	8	89	26	80	22	34	329	
		90	63	11-11-52[1]	8.0	1,004	---	----	---	200	86	---	--	---	--	--	--	--	316	
		42	68	12- 9-52	8.0	980	---	----	---	322	95	---	--	---	--	--	--	--	346	
		41	61	1- 6-53	8.0	938	---	----	---	325	96	---	--	---	--	--	--	--	347	
		------	--	1-26-53[c]	8.0	932	586	0.16	0.7	309	90	88	17	104	24	58	4	26	357	
		34	64	2-10-53	8.1	872	---	----	---	325	100	---	--	---	--	--	--	--	360	
		120	57	3-10-53[1]	8.4	930	---	0.16	---	214	81	216	8	82	29	90	--	38	324[b]	
		120	57	4- 6-53[1]	8.4	879	---	0.14	---	185	85	---	--	---	--	80	--	--	307	CO_3 = 12 ppm.
		30	75	5- 5-53	7.9	831	566	0.11	0.8	329	95	80	19	105	15	70	4	--	324[b]	
		30	81	6- 9-53	8.1	872	---	0.26	---	308	101	---	--	---	--	--	--	32	336	
		25	82	7- 7-53	7.4	818	---	0.34	---	281	96	---	--	---	--	--	--	37	302	
		------	--	7-31-53[c1]	7.9	980	830	0.14	0.8	173	81	242	5	76	29	92	5	39	309	
		115	75	8- 4-53[1]	7.9	958	---	0.18	---	151	80	---	--	---	--	--	--	39	319	
		112	73	9- 8-53[1]	7.6	985	657	0.10	0.7	185	82	240	4	80	26	90	4	38	307	
		131	68	10-14-53[1]	8.2	998	---	0.14	---	178	80	---	--	---	--	--	--	39	309	
		115	63	11- 9-53[1]	8.0	914	---	0.06	---	200	79	---	--	---	--	--	--	40	311	
		32	61	12- 7-53	7.9	961	---	0.20	---	312	94	---	--	---	--	--	--	22	339	
		28	59	1-12-54	8.0	968	---	0.14	---	312	94	---	--	---	--	--	--	33	347	CO_3 = 10 ppm.
		39	68	2- 9-54	8.0	925	---	0.12	---	312	86	---	--	---	--	--	--	31	334	
		94	61	3- 9-54[1]	8.2	883	---	0.08	---	195	78	---	--	---	--	--	--	36	326	CO_3 = 10 ppm.
		85	63	4- 6-54[1]	8.1	966	---	0.14	---	188	81	---	--	---	--	--	--	38	316	CO_3 = 24 ppm.
		186	66	5- 4-54[1]	8.2	982	626	0.18	0.6	193	76	227	5	77	31	85	6	36	320	
		200	66	6- 9-54[1]	8.2	1,016	---	0.16	---	154	74	---	--	---	--	--	--	38	314	CO_3 = 12 ppm.
		185	70	7- 1-54[1]	8.3	840	---	0.14	---	146	80	---	--	---	--	--	--	41	292	CO_3 = 10 ppm.
3S/6W-3 [illegible]	Santa Ana River. N. of Arlington; 600 feet upstream from Metropolitan Water District's aqueduct bridge. U.S.G.S. gaging station on right bank during 1938-37.	30	--	9-15-31[a]	---	837	---	0.15	---	305	85	47	11	83	21	66	--	33	294[b]	
		82	--	3- 9-32[a]	---	811	---	0.16	---	305	84	52	8	85	20	63	--	32	295[b]	
		27	--	9-15-32[a]	---	848	---	0.22	---	299	87	47	10	84	19	69	--	34	288[b]	
		------	73	8-12-37	---	874	---	0.10	---	297	91	54	16	89	18	61	--	31	296[b]	
		------	72	10- 6-37	---	836	---	0.26	---	305	95	34	19	86	16	76	--	31	281[b]	
		------	63	2-23-38	---	875	---	0.18	---	310	93	52	10	90	17	72	--	35	295[b]	
		------	84	6- 1-38	---	863	---	0.15	---	299	84	61	6	81	24	63	--	31	301[b]	
		------	88	8-31-38	---	939	---	0.13	---	369	64	65	2	78	22	82	--	38	285[b]	
		------	70	11-28-38	---	906	---	0.20	---	290	101	61	15	90	20	71	--	34	307[b]	
		------	70	3- 7-39	---	864	---	0.19	---	279	90	104	12	93	20	77	--	35	315[b]	
		------	90	6-13-39	---	890	---	0.15	---	283	98	62	6	86	19	70	--	34	293[b]	
		------	86	8-29-39	---	840	---	----	---	262	89	65	8	79	19	68	--	35	276[b]	
		------	63	12- 8-39	---	820	---	----	---	293	89	64	3	90	20	69	--	33	307[b]	
		------	87	3-12-40	---	910	---	----	---	317	92	72	8	95	20	71	--	32	320[b]	
		------	73	6-12-40	---	880	---	----	---	308	110	58	13	91	20	71	--	33	310[b]	
		------	63	1-20-47	---	686	---	0.00	---	265	55	79	12	82	16	53	--	30	271[b]	
		------	75	4-14-47	---	800	---	0.40	---	316	86	73	9	91	19	76	--	35	306[b]	
		------	77	6-17-47	---	893	---	0.50	---	308	90	72	13	93	19	72	--	33	311[b]	
		------	68	10-30-47	---	757	---	0.20	---	311	85	72	17	92	20	72	--	33	312[b]	
		------	--	12-16-47	---	746	---	0.30	---	307	84	74	15	93	19	61	--	31	311[b]	
		------	--	3- 9-48	---	775	---	0.10	---	295	83	76	9	91	20	74	--	34	310[b]	
		------	--	11- 4-48	---	807	---	0.15	---	300	81	78	13	93	20	69	--	33	315[b]	
		------	--	2-21-49	8.1	730	---	0.25	---	288	76	85	7	88	19	64	--	32	298[b]	
		------	--	8-28-50	8.3	830	---	0.14	---	299	89	282	3	78	29	73	--	33	314[b]	
		------	--	3- 9-51	8.3	850	---	0.08	---	305	78	80	18	96	18	70	--	33	314[b]	
		20	68	8-14-51	8.0	800	---	0.07	---	195	96	70	19	75	18	69	--	36	261[b]	
		29	72	9-18-51	8.6	---	---	----	---	---	---	---	--	--	--	--	--	--	---	
		36	68	10-16-51	8.6	940	---	----	---	312	94	---	--	--	--	--	--	--	346	
		------	63	11- 5-51	7.9	810	---	0.15	---	256	89	76	18	74	20	73	--	37	267[b]	
		20	57	12- 5-51	8.2	917	---	----	---	315	100	---	--	--	--	--	--	--	335	
		18	55	1- 8-52	8.0	909	---	----	---	310	86	---	--	--	--	--	--	--	342	
		50	59	2-18-52	8.0	848	---	----	---	321	97	---	--	--	--	--	--	--	350	
		------	--	3-17-52	7.8	760	---	0.13	---	275	67	96	12	89	18	65	--	32	296[b]	
		45	75	4-14-52	7.6	771	---	----	---	278	80	---	--	--	--	--	--	--	303	
		35	73	5- 5-52[d]	8.3	948	---	0.13	0.5	300	93	91	15	69	38	68	4	31	328	
		30	79	6-16-52	8.1	943	---	----	---	322	107	---	--	--	--	--	--	--	339	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and [illegible] number	Location and description	Discharge in second feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity ($EC \times 10^6$ at 25 °C)	Total dissolved solids, in ppm	Mineral constituents in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)													
S16953 [illegible]	Santa Ana River, upstream from M.W.D. aqueduct bridge. (continued)	30	81	7-14-52	7.8	854	---	----	---	334	112	---	--	---	--	--	--	--	335	
		20	66	8-12-52	7.9	894	---	----	---	329	99	---	--	---	--	--	--	--	354	
		20	79	9- 8-52	7.9	925	---	----	---	315	123	---	--	---	--	--	--	--	356	
		20	72	10-15-52	7.8	957	597	0.10	0.7	315	97	78	21	104	20	60	4	--	342[b]	
		20	64	11-11-52	8.0	910	---	----	---	288	98	---	--	---	--	--	--	--	320	
		25	64	12- 9-52	8.0	943	---	----	---	332	94	---	--	---	--	--	--	--	356	
		35	61	1- 6-53	8.2	938	---	----	---	322	95	---	--	---	--	--	--	--	343	
		35	64	2-10-53	8.0	961	---	----	---	322	100	---	--	---	--	--	--	--	347	
		40	68	3-10-53	7.8	962	---	----	---	327	97	---	--	---	--	--	--	--	347	
		35	63	4- 6-53	8.2	814	---	0.12	---	268	92	---	--	---	--	60	--	--	321	CO_3 = 17 ppm.
		30	75	5- 5-53	7.9	848	561	0.13	---	325	95	85	21	100	18	75	4	--	324[b]	
		25	75	6- 3-53	7.6	938	---	0.18	---	332	100	---	--	---	--	--	--	32	347	
		30	77	7- 7-53	7.5	835	---	0.22	---	290	95	---	--	---	--	--	--	36	308	
		30	75	8- 4-53	7.7	841	---	0.14	---	320	91	---	--	---	--	--	--	32	330	
		30	75	9- 8-53	7.6	885	549	0.13	0.8	259	97	83	19	82	21	70	4	34	291	
		30	70	10-14-53	8.1	964	---	0.12	---	320	93	---	--	---	--	--	--	31	339	
		30	68	11- 9-53	7.8	869	---	0.04	---	317	90	---	--	---	--	--	--	34	300	
		30	63	12- 7-53	7.8	953	---	0.18	---	281	96	---	--	---	--	--	--	32	340	CO_3 = 24 ppm.
		30	54	1-12-54	7.8	948	---	0.16	---	307	92	---	--	---	--	--	--	33	341	CO_3 = 12 ppm.
		30	68	2- 9-54	7.9	871	---	0.14	---	312	86	---	--	---	--	--	--	29	334	
		30	68	3- 9-54	8.0	982	---	0.16	---	295	96	---	--	---	--	--	--	32	343	CO_3 = 19 ppm.
		35	73	4- 6-54	8.1	943	---	0.14	---	271	99	---	--	---	--	--	--	35	299	CO_3 = 19 ppm.
		35	77	5- 4-54	8.1	937	564	0.16	0.7	315	92	91	20	96	21	75	6	33	320	
		35	73	6- 3-54	8.0	968	---	0.18	---	264	91	---	--	---	--	--	--	36	284	CO_3 = 20 ppm.
		25	77	7- 1-54	8.0	900	---	0.14	---	283	93	---	--	---	--	--	--	35	307	CO_3 = 10 ppm.
S16953A [illegible]	Santa Ana River. N. of Arlington; [illegible] Metropolitan Water District's feeder line across the river. S.B.Co. [illegible] sample point No. [illegible].	------	--	6-26-50[ci]	8.1	1,030	680	0.19	0.3	126	82	232	6	80	28	93	--	39	312	CO_3 = 18 ppm.
		------	--	8-14-50[ci]	8.3	1,000	693	0.00	0.0	134	84	281	3	77	24	86	--	39	290	CO_3 = 6 ppm.
		------	--	8-23-50[ci]	8.3	980	---	0.16	---	140	82	282	3	78	29	103	--	42	314[b]	
		------	--	8-22-51[ci]	8.2	1,040	689	0.02	---	142	82	293	0	75	29	102	--	42	308	
S16963 [illegible]	Santa Ana River. N. of Arlington; at [illegible] bridge. S.B.Co.P.C.D. sample point No. 7[illegible].	------	--	6- 9-52[c]	7.9	740	515	0.06	0.8	303	64	91	7	97	19	60	--	29	321	
		------	--	1-26-53[c]	7.6	938	560	0.09	0.7	309	82	84	17	104	21	56	4	26	346	
		------	--	7-31-53[c]	7.5	958	619	0.15	1.1	322	94	73	19	91	28	66	4	29	342	
S17000 62-50.2	Santa Ana River. NW. of Riverside; at [illegible] Bridge [illegible] Highway No. 60 crossing).	4	---	9-19-39[a]	---	627	---	0.17	---	302	36	26	Tr.	67	15	50	--	32	2[illegible][b]	
		------	73	6-17-47	---	714	---	0.50	---	261	43	104	2	79	18	48	--	28	271[b]	
		------	66	10-30-47	---	600	---	0.20	---	267	41	87	Tr.	78	17	48	--	28	2[illegible][b]	
		------	--	12-16-47	---	615	---	0.20	---	271	41	90	Tr.	84	17	44	--	25	298[b]	
		------	--	2-21-49	8.4	683	---	0.00	---	242	41	156	6	97	18	50	--	26	316[b]	
[illegible] [illegible]	Santa Ana River. S. of Colton; 1,000 feet W. of La Cadena Ave. bridge. S.B.Co.P.C.D. sample point No. 257.	------	--	3- 5-19[a]	---	---	---	----	---	204	17	37	3	43	10	36	--	34	14[illegible][b]	
		------	--	4- 1-19[a]	---	---	---	----	---	256	24	46	0	56	16	29	--	23	[illegible]	
		------	--	2-25-49[c]	7.2	932	551	0.11	0.9	298	71	116	5	124	22	44	--	19	[illegible]	
		------	--	4- [illegible]-52[c]	7.8	420	329	0.10	0.6	146	28	71	11	50	11	32	--	28	172	
[illegible] [illegible]	Santa Ana River. E. of Colton; at [illegible] bridge near [illegible]. S.B.Co.P.C.D. sample point No. 882. U.S.G.S. gaging station on downstream side of [illegible].	------	--	6-19-19[a]	---	---	---	----	---	170	15	32	0	40	10	37	--	34	141[b]	All samples from S. side of river, except as noted. Sample from N. side includes some rising water.
		------	--	2- 1-33[a]	---	346	---	0.06	---	159	9	34	2	41	11	17	--	20	148[b]	
		------	52	1-[illegible]-47	---	380	---	0.00	---	179	11	40	3	41	11	32	--	32	148[b]	
		------	66	4-14-47	---	544	---	0.10	---	268	28	51	2	50	13	66	--	45	178[b]	
		------	--	12-15-47	---	490	---	0.30	---	235	19	64	Tr.	57	14	40	--	30	200[b]	
		------	--	3- 8-48	---	488	---	0.10	---	244	28	59	Tr.	45	12	63	--	45	182[b]	
		------	--	1-[illegible]-49	8.2	541	---	0.30	---	276	35	78	2	67	15	65	--	38	[illegible]	
		1	64	12- 9-52	7.8	775	492	0.16	1.2	280	30	109	17	80	15	65	7	--	2[illegible][b]	
		------	--	2- 9-53[c]	6.9	703	482	0.07	0.9	163	19	204	4	87	24	35	3	19	314	From N. side.
		------	--	2- 9-53[c]	7.8	725	436	0.22	0.9	273	42	84	17	56	17	76	6	43	206	
[illegible] 62-59.7	Santa Ana River. E. of Colton; at [illegible] sample point No. 261.	------	--	3- 4-48[c]	7.9	421	255	0.51	0.9	119	15	41	11	51	9	20	--	21	165	CO_3 = 26 ppm.
		------	--	12- 7-48[c]	7.7	523	343	0.17	0.7	234	22	47	16	61	16	37	--	27	220	
		------	--	6-30-49[c]	6.0	464	294	----	0.3	127	33	49	11	42	13	46	--	39	156	CO_3 = 29 ppm.
		5	--	1- [illegible]-52[1]	8.0	337	---	0.06	0.6	156	7	36	4	23	20	16	4	19	140	
		------	--	4- 8-52[c]	7.9	220	198	0.12	0.6	90	15	30	1	28	4	16	--	28	[illegible]	
		------	--	1-26-53[c]	8.0	416	252	0.06	0.7	185	14	45	2	49	15	23	4	21	[illegible]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge, in second-feet	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (EC×10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							S[illegible] - (continued)													
S18090 82-64.3	Santa Ana River. NW. of Redlands; at Palm Ave. bridge, 0.5 mile S. of 3rd St.	65	--	1-18-52[e]	7.7	131	102	----	---	51	20	7	4	13	5	6	--	--	53[b]	
S18160 82-68.5	Santa Ana River. N. of Mentone; at A.T.&S.F.R.R. crossing. S.B.Co.F.C.D. sample point No. 187.	------	--	9-11-46[c]	8.4	654	493	12	---	77	14	223	0	90	14	22	--	38	169	
		------	--	12-12-49[c]	7.5	408	294	0.05	0.3	139	8	82	4	48	14	10	--	11	177	
S18999 82-71.1	Santa Ana River. NE. of Mentone; S. side of Santa Ana Canyon Rd. near discharge from Southern California Edison Co.'s Power Plant No. 3.	34	--	9-10-31[a]	---	239	---	0.02	---	125	0	7	Tr.	23	10	11	--	19	99[b]	
		141	--	4-15-32[a]	---	158	---	0.07	---	82	2	6	0	19	5	9	--	23	68[b]	
		55	--	9-15-32[a]	---	180	---	0.02	---	92	2	3	Tr.	20	6	10	--	24	75[b]	
		10	45	11-14-46	---	151	---	0.00	---	85	2	12	0	19	4	11	--	27	64[b]	
		------	45	1-20-47	---	196	---	0.00	---	115	4	11	Tr.	24	5	15	--	28	81[b]	
		------	--	9- 7-48	---	226	---	0.00	---	137	5	0	0	19	--	16	--	--	---	
		------	--	8-28-49	8.3	212	---	0.02	---	115	4	15	Tr.	24	5	19	--	33	81[b]	
		------	--	8-20-50	8.3	220	---	0.03	---	134	5	9	1	25	11	17	--	25	108[b]	
		------	--	3-11-52	8.3	190	---	0.02	---	110	4	8	0	27	4	17	--	29	84[b]	
S18999B [illegible]	Santa Ana River. NE. of Mentone; at Greenspot Rd. bridge. S.B.Co.F.C.D. sample point No. 769.	20	--	4-26-52[c]	7.8	180	131	0.04	0.3	93	8	17	--	24	4	13	--	28	75	
[illegible]	Santa Ana River. NE. of Mentone; at tailrace of Southern California Edison Co.'s Power Plant No. 3, opposite stream mile 71.2. Diversion point is on both Bear Creek and Santa Ana River 0.1 mile above confluence of the two, 7.6 miles upstream from power house. Analyses on 12-31-52 and 1-20-54 sampled from Santa Ana River at U.S.G.S. gaging station, 0.3 mile upstream from tailrace.	6.0	58	4-19-51	8.7	251	---	----	---	132	6	--	--	--	--	--	--	--	93	During summer, flow consists primarily of releases from Bear Valley Reservoir via Bear Creek.
		16	57	5-15-51	8.5	241	159	0.00	---	129	8	11	0	27	6	19	--	--	92[b]	
		32	60	6-19-51	8.2	255	---	----	---	134	9	--	--	--	--	--	--	--	104	
		41	66	7-16-51	8.3	264	---	----	---	144	9	--	--	--	--	--	--	--	108	
		35	66	8-13-51	8.5	275	---	----	---	149	8	--	--	--	--	--	--	--	112	
		------	--	8-20-51	8.3	270	---	0.04	---	152	5	9	2	24	10	17	--	3	101[b]	
		38	64	9-17-51	7.9	283	195	0.00	---	154	8	10	2	26	6	22	--	--	90[b]	
		30.8	57	10-15-51	7.6	289	---	----	---	39	8	--	--	--	--	--	--	--	118	
		16.2	54	11- 5-51	8.0	270	---	----	---	146	8	--	--	--	--	--	--	--	105	
		------	46	12- 5-51	7.3	216	---	----	---	111	6	--	--	--	--	--	--	--	82	
		80	48	1- 7-52	8.0	284	---	----	---	116	6	--	--	--	--	--	--	--	99	
		105	43	2-13-52	7.8	195	---	----	---	117	8	--	--	--	--	--	--	--	84	
		105	43	3-11-52	7.9	199	---	----	---	105	7	--	--	--	--	--	--	--	73	
		105	50	4- 8-52	7.7	126	---	----	---	81	6	--	--	--	--	--	--	--	54	
		75	50	5- 5-52[d]	8.1	155	---	0.04	0.2	78	2	9	Tr.	17	3	8	1	23	56	
		79	57	6-10-52	8.1	156	---	----	---	98	8	--	--	--	--	--	--	--	65	
		54	59	7- 8-52	7.8	161	---	----	---	100	7	--	--	--	--	--	--	--	98	
		47	61	8-11-52	8.2	192	---	----	---	116	5	--	--	--	--	--	--	--	87	
		34	61	9- 3-52	7.9	217	---	----	---	117	11	--	--	--	--	--	--	--	83	
		39	57	10- 8-52	7.9	216	130	0.00	0.4	122	6	11	1	23	11	10	2	--	103[b]	
		39	43	11-18-52	7.9	246	---	----	---	117	9	--	--	--	--	--	--	--	92	
		35	46	12-16-52	8.1	250	---	----	---	122	4	--	--	--	--	--	--	--	85	
		7	--	12-31-52	7.8	350	---	----	---	134	9	--	--	--	--	--	--	--	---	
		50	43	1-27-53	8.0	225	---	----	---	120	10	--	--	--	--	--	--	--	79	
		38	43	2-18-53	8.0	224	---	----	---	124	8	--	--	--	--	--	--	--	94	
		34	50	3-18-53	8.1	215	---	----	---	120	7	--	--	--	--	--	--	--	81	
		40	50	4- 6-53	8.1	229	---	----	---	137	6	--	--	--	--	11	--	--	99	
		50	48	5-15-53	7.9	202	139	0.06	0.4	120	5	10	0	27	4	13	2	--	84[b]	
		48	57	6- 9-53	8.1	222	---	0.10	---	129	6	--	--	--	--	--	--	20	101	
		33	64	7-14-53	8.0	226	---	0.02	---	127	3	--	--	--	--	--	--	22	95	
		39	64	8-12-53	7.9	208	---	0.00	---	123	2	--	--	--	--	--	--	23	101	
		39	61	9- 7-53	7.5	223	135	0.04	0.5	122	4	10	0	22	8	13	2	24	88	
		31	52	10-20-53	8.1	241	---	0.06	---	127	3	--	--	--	--	--	--	24	96	
		25	50	11-18-53	8.2	228	---	0.00	---	132	3	--	--	--	--	--	--	28	89	
		26.5	46	12-15-53	8.1	249	---	0.08	---	127	4	--	--	--	--	--	--	28	94	
		27	41	1-12-54	8.2	248	---	0.02	---	110	2	--	--	--	--	--	--	27	94	CO_3 = 10 ppm.
		20	44	1-20-54	7.2	240	178	0.02	---	81	14	26	2	23	5	17	2	--	79[b]	
		92	46	2-16-54	8.0	193	---	0.10	---	105	2	--	--	--	--	--	--	26	72	
		23	50	3- 9-54	8.0	239	---	0.02	---	124	3	--	--	--	--	--	--	26	83	
		105	48	4- 6-54	7.8	167	---	0.02	---	100	2	--	--	--	--	--	--	25	65	
		78	54	5- 4-54	8.1	196	100	0.04	0.5	100	3	9	0	18	5	14	2	31	66	
		52	52	6- 9-54	8.0	248	---	0.10	---	100	1	--	--	--	--	--	--	27	71	CO_3 = 5 ppm.
		33	57	7- 1-54	8.2	196	---	0.04	---	112	2	--	--	--	--	--	--	27	77	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and [illegible]	[illegible]	Discharge in second-feet	Temperature [illegible]	Date and time sampled (PST)	pH	Conductivity (Calc.) at 25° C.	Total dissolved solids, in ppm	Mineral constituents, in parts per million: [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)												
[illegible] 82-59.6 -0.7	[illegible] near Waterman Ave. bridge, just upstream from the Santa Ana River. S.B. S.B.C.D. sample point No. 154.	------	--	1- 2-48[c]	9.0	834	435	1.32	---	285	53	70	2	30	19	116	--	56	200	CO_3 = 31 ppm.
		------	--	3- 4-48[c]	7.8	1,420	875	0.17	0.9	453	88	127	53	68	28	220	--	63	272	CO_3 = 52 ppm.
		------	--	12- 7-48[c]	8.8	979	627	0.50	0.1	317	57	86	34	53	26	142	--	--	337	CO_3 = 31 ppm.
		2	--	1- 8-52[d]	8.0	1,090	---	0.26	1.2	384	88	97	48	54	25	150	11	56	333	
		------	--	4- 8-52[c]	7.9	540	405	0.57	0.8	229	39	52	25	35	13	78	--	55	140	
		3	--	12-31-52	7.5	446	325	0.04	---	188	28	36	6	49	10	40	4	--	164[b]	
		------	--	2- 9-53[c]	7.1	683	402	0.18	0.7	273	43	54	16	36	19	84	7	51	166	
S19023A 82-59.6 [illegible]	San Timoteo Creek. NW. of Loma Linda; at Colton Ave. bridge (U.S. Highway [illegible]). S.B.Co.F.C.D. sample point No. 148.	------	--	2-14-45[c]	7.6	371	231	1.32	---	169	11	28	6	36	8	45	--	44	123	
		------	--	5- 2-45[c]	8.5	538	327	0.25	---	196	24	35	0	52	12	52	--	39	181	CO_3 = 21 ppm.
		------	--	12- 7-48[c]	8.0	1,010	631	0.71	1.5	346	66	84	49	50	22	141	--	56	242	
		50	--	1-18-52[d]	7.7	320	237	0.10	---	166	140	32	8	38	12	22	--	--	144[b]	
		------	--	4-25-52	6.9	141	123	0.04	---	68	6	16	2	18	2	5	2	--	53[b]	NH_3 = 1 ppm.
S18033 82-59.6 -1.3	San Timoteo Creek. N. of Loma Linda; at Anderson St. bridge. S.B.Co.F.C.D. sample point No. 153.	------	--	5- 2-45[c]	8.5	961	530	1.44	---	410	54	91	19	84	25	92	--	37	309	
		------	--	4- 8-52[c]	7.8	210	390	0.70	0.8	102	10	46	2	24	5	30	--	45	80	
S18054 [illegible] -2.5	San Timoteo Creek. E. of Loma Linda; [illegible]. S.B.Co. F.C.D. sample point No. 147.	------	--	2-14-45[c]	8.8	359	285	13.46	---	126	3	21	9	26	6	55	--	56	91	CO_3 = 29 ppm.
		------	--	5- 2-45[c]	8.4	445	326	3.80	---	165	[illegible]	47	0	45	11	33	--	34	146	CO_3 = 12 ppm.
		------	--	12- 7-48[c]	8.7	559	374	0.24	0.5	207	24	59	27	62	20	47	--	30	237	CO_3 = 11 ppm.
		------	--	1-23-50[c]	6.7	1,050	738	7.85	0.0	68	10	453	50	56	53	65	--	29	356	
S18139A [illegible] -8.6	San Timoteo Creek. SE. of Redlands; at junction with Yucaipa Creek. S.B.Co.F.C.D. sample point No. 144.	------	--	2-14-45[c]	8.4	897	536	0.00	---	369	76	49	11	67	27	103	--	45	278	CO_3 = 33 ppm.
S18282 82-69.6 [illegible]	Spoor Canyon Creek. N. of Yucaipa; in NW¼ NW¼ Sec.20, T. 1 S., R. 1 W., [illegible].	------	--	1- 7-49	8.4	709	---	0.00	---	372	15	146	Tr.	75	35	67	--	30	331[b]	
		------	--	2- 8-49	8.5	725	---	0.06	---	359	17	140	Tr.	75	35	64	--	30	331[b]	
S15920 82-33.2 -2.6	Temescal Creek. NW. of Corona; at Rincon St. crossing E. of Smith Ave.	6	--	12-31-52	6.2	1,348	761	0.36	---	332	230	109	0	102	23	135	24	--	350[b]	
S15931 82-33.2 -3.5	Temescal Creek, rising water. N. of Corona; at junction of Hamner Ave. and Auburndale Rd. (River St.)	------	--	3- 9-48	---	1,342	---	0.10	---	398	211	160	9	139	35	147	--	39	491[b]	
S15962 82-33.2 [illegible]	Temescal Creek. E. of Corona; at 6th St. bridge, on S. side.	0.02	--	2-15-32[a]	---	454	---	0.02	---	116	30	---	--	---	--	---	--	--	---	
		3	55	11-13-46	---	232	---	0.10	---	49	9	73	25	27	10	15	--	23	109[b]	
S16779 [illegible] -0.2	Temescal Creek. NW. of Corona; upstream from junction with Santa Ana River.	1.7	--	3- 2-51[d]	8.0	1,690	1,030	0.56	---	483	230	172	5	143	40	175	5	42	522	
S18020 82-57.9 -2.3-1.0	Timber Creek. S. of San Bernardino; at Waterman Ave. crossing, N. of Mill St. S.B.Co.F.C.D. sample point No. 215.	------	--	3- 7-47[c]	6.6	341	217	5.34	---	135	11	50	28	41	10	17	--	22	143	
		------	--	6-30-49[c]	6.5	433	287	----	0.0	166	15	66	4	49	14	26	--	24	178	
		------	--	1-30-51[c]	7.2	313	213	0.00	0.1	124	7	45	1	34	4	18	--	18	203	
		------	--	3-19-52[c]	5.6	1,440	1,464	0.06	0.9	7	30	855	10	255	54	49	--	11	858	
		------	--	4-21-52[c]	6.1	1,280	1,290	0.14	0.7	5	28	734	5	206	44	44	--	12	697	
		------	--	1- 9-53[c]	6.7	848	770	0.09	0.6	88	18	448	9	141	36	37	6	14	501	
S18020B 82-57.9 -2.3-0.8	Timber Creek. S. of San Bernardino; 100 feet N. of Mill St., 300 feet W. of Waterman Ave. S.B.Co.F.C.D. sample point No. 870.	------	--	1- 9-53[c]	6.7	981	745	0.08	0.6	114	19	386	6	144	26	33	5	13	464	
S18819 82-57.9 [illegible]	Town Creek. San Bernardino; 100 feet S. of 3rd St., 100 feet E. of Mountain View Ave. S.B.Co.F.C.D. sample point No. 754.	------	--	4- 9-52[c]	6.4	970	692	0.09	1.0	298	137	66	37	110	23	73	--	30	370	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge in [illegible]	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							STREAMS - (continued)													
S16754 [illegible]	[illegible] Creek, tributary to Chino Creek. SE. of Chino; 400 feet E. of Euclid Ave., at Pine Ave. crossing. S.B.Co.F.C.D. sample point No. 771.	------	--	4-28-52[c]	7.8	1,130	864	0.13	0.7	595	49	160	1	125	41	104	16	31	479	
		-----	--	10-31-52[c]	7.6	947	619	0.11	0.5	437	30	120	Tr.	104	27	68	11	28	371	
S16764 82-31.2 [illegible]	[illegible] Creek, tributary to Chino Creek. SE. of Chino; 1,000 feet W. of Cucamonga Ave., at Pine Ave. crossing. S.B.Co.F.C.D. sample point No. 770.	------	--	4-28-52[c]	7.4	2,150	2,047	0.17	0.7	581	72	883	46	361	79	124	30	18	1,226	
[illegible]	Unnamed creek, tributary to Santa Ana River. N.of Highgrove; 1,300 feet N. of Riverside County line, 400 feet W. [illegible] Ave. S.B.Co.F.C.D. sample point No. 639. Second analysis on 6-11-51 was of residue from stream flow that killed fish and vegetation, one week before.	------	--	6-11-51[c]	7.3	729	451	0.74	0.2	240	64	66	12	70	15	58	--	34	239	NH_3 = 1 ppm.
		------	--	6-11-51[c]	6.9	1,253	974	0.56	0.0	603	82	1	0	121	28	30	--	9	422	NH_3 = 67 ppm.
		[illegible]	--	9-11-52[c]	8.0	1,070	769	0.21	1.1	322	79	270	29	124	30	78	7	27	427	
S17967C 82-52.8 .1	Unnamed creek, tributary to Santa Ana River. N.of Highgrove; W. of California Electric Co.'s intake and [illegible] S.B.Co.F.C.D. sample point No. 970.	------	--	10-13-53[c]	8.4	955	765	0.34	1.1	168	60	239	25	91	20	80	8	35	310[b]	
S18779 82-57.9 [illegible] -0.1	Unnamed creek, tributary to E. branch of Lytle Creek. SW. of San Bernardino; W. side of Lytle Creek, E. branch, 500 feet N. of Rialto Ave. S.B.Co.F.C.D. sample point No. 973.	------	-	10-26-53[c]	7.8	454	280	0.00	0.2	232	7	45	7	68	12	13	3	11	219[b]	
S17984 [illegible]	Warm Creek. SE. of Colton; below confluence with E. branch of Lytle Creek. S.B.Co.F.C.D. sample point No. 189.	------	--	9-11-46[c]	7.6	502	320	0.95	---	220	18	58	24	61	12	30	--	23	212	
		------	--	3- 7-47[c]	7.5	570	364	0.26	---	214	24	77	20	62	16	30	--	22	222	
		------	--	11-14-49[c]	7.7	516	316	----	0.3	244	16	38	10	63	13	21	--	18	210	
		------	--	12- 4-50[c]	7.8	485	317	0.03	0.3	234	17	45	2	62	8	23	--	21	191	
		------	--	4- 8-52[c]	7.9	370	285	0.10	0.5	144	20	60	4	49	11	23	--	23	166	
		------	--	3-18-54[c]	7.8	610	396	0.10	0.6	271	1	94	6	84	15	31	4	20	271	
[illegible] 82-57.9 [illegible]	[illegible] Creek. E. of Colton; [illegible] from City of San Bernardino Sewage [illegible] into Warm Creek. S.B.Co.F.C.D. sample point No. 586.	------	--	3- 1-51[c]	7.4	423	254	0.04	0.0	173	10	47	3	45	9	24	--	26	148	
		------	--	3-18-54[c]	8.2	616	417	0.43	0.5	264	14	91	8	86	14	30	4	19	273	CO_3 = 5 ppm.
S17993 82-57.9 -0.5	Warm Creek. E. of Colton; at U.S.G.S. gaging station, 10 feet N. of F St. [illegible]	41	--	1- 7-30[a]	---	479	---	0.21	---	195	30	43	--	58	12	25	--	22	194[b]	
		[illegible]	--	4-16-32[a]	---	473	---	0.17	---	186	20	41	10	53	11	32	--	28	176[b]	
		------	--	1-17-33[a]	---	586	---	0.12	---	156	18	115	11	67	15	30	--	22	229[b]	
		------	[illegible]	8-12-37	---	638	---	0.10	---	174	45	48	54	53	11	47	--	37	178[b]	
		------	[illegible]	10- 6-37	---	734	---	0.32	---	137	62	39	64	57	14	63	--	41	200[b]	
		------	[illegible]	10-29-37	---	1,130	---	0.28	---	193	81	221	77	63	25	129	--	52	260[b]	
		------	[illegible]	2-23-38	---	650	---	0.13	---	175	21	142	0	77	16	30	--	20	258[b]	
		------	--	3- 9-48	---	495	---	0.10	---	214	24	55	16	59	11	42	--	32	193[b]	
		------	--	11- 4-48	---	521	---	0.16	---	203	26	58	35	60	12	43	--	32	199[b]	
		------	--	8-28-50	7.5	610	---	0.36	---	195	43	51	35	48	11	69	--	48	165[b]	
		[illegible]	[illegible]	4-18-51	7.5	685	---	----	---	193	55	--	--	--	--	--	--	--	186	
		[illegible]	70	5-16-51	7.7	600	416	0.11	---	192	38	50	30	57	14	42	--	--	200[b]	
		[illegible]	[illegible]	6-19-51	7.4	734	---	----	---	190	61	--	--	--	--	--	--	--	204	
		12.	[illegible]	7-18-51	7.3	739	---	----	---	200	66	--	--	--	--	--	--	--	186	
		------	--	8-20-51	7.4	670	---	0.26	---	171	43	36	55	53	11	55	--	40	178[b]	
		[illegible]	[illegible]	9-17-51	7.4	801	488	0.75	0.2	220	68	49	83	41	17	87	--	--	172[b]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge, in second feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (Micromhos at 25°C)	Total dissolved solids, in ppm.	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)													
[illegible] 82-57.9 [illegible]	Warm Creek, at U.S.G.S. gaging station, 10 feet N. of F St. (continued)	------	72	10-16-51	7.2	882	---	----	---	237	61	---	--	--	--	--	--	--	184	
		15	68	11- 5-51	6.6	810	---	----	---	189	66	---	--	--	--	--	--	--	176	
		13	64	12- 4-51	7.3	793	---	----	---	163	66	---	--	--	--	--	--	--	221	
		------	57	1- 7-52	6.8	595	---	0.19	---	184	25	---	--	--	--	--	--	--	211	
		40	61	2-18-52	7.0	669	---	0.10	---	208	47	---	--	--	--	--	--	--	254	
		100	61	3-17-52	7.2	488	---	----	---	137	21	---	--	--	--	--	--	--	176	
		35	68	4-14-52	7.1	493	---	----	---	165	23	---	--	--	--	--	--	--	194	
		42	73	5- 5-52[d]	7.5	539	---	0.05	0.6	168	22	74	29	52	14	35	5	28	187	
		35	79	6-16-52	7.3	626	---	----	---	176	56	---	--	--	--	--	--	--	176	
		14	79	7-14-52	6.9	694	---	----	---	232	64	---	--	--	--	--	--	--	199	
		7	73	8-12-52	7.0	740	---	----	---	197	86	---	--	--	--	--	--	--	191	
		22	79	9- 8-52	7.1	786	---	----	---	268	62	---	--	--	--	--	--	--	199	
		15	75	10-15-52	7.0	800	512	0.25	0.7	232	82	56	76	42	19	90	12	--	1[illegible][b]	
		16	68	11-11-52	6.7	892	---	----	---	185	83	---	--	--	--	--	--	--	212	
		32	64	12- 9-52	6.8	726	---	----	---	230	40	---	--	--	--	--	--	--	257	
		4[illegible]	[illegible]	1- 6-53	6.8	625	---	----	---	210	31	---	--	--	--	--	--	--	236	
		2[illegible]	53	2-10-53	6.9	736	---	----	---	224	47	---	--	--	--	--	--	--	227	
		20	54	3-10-53	6.8	702	---	----	---	205	41	---	--	--	--	--	--	--	[illegible]	
		30	54	4- 6-53	7.4	650	---	0.22	---	185	53	---	--	--	--	55	--	--	208	
		17	72	5- 5-53	7.3	877	550	0.29	0.8	285	74	71	68	64	16	80	12	--	[illegible][b]	NH_3 = 24 ppm.
		18	75	6- 9-53	7.1	446	---	0.42	---	234	71	---	--	--	--	--	--	44	206	
		18	75	7- 7-53	6.7	665	---	0.38	---	207	51	---	--	--	--	--	--	47	1[illegible]	
		18	75	8- 4-53	7.0	644	---	0.32	---	215	44	---	--	--	--	--	--	45	1[illegible]	
		17.4	77	9- 1-53	6.9	766	498	0.40	0.8	195	54	67	82	49	15	78	11	46	1[illegible]	
		14.6	72	10-14-53	7.4	890	---	0.26	---	217	65	---	--	--	--	--	--	47	1[illegible]	
		15	68	11- [illegible]-53	7.3	779	---	0.34	---	229	64	---	--	--	--	--	--	42	181	
		15	61	12- 7-53	7.4	877	---	0.36	---	220	62	---	--	--	--	--	--	42	213	
		24	59	1-12-54	7.6	813	---	0.32	---	288	56	---	--	--	--	--	--	47	1[illegible]	
		27	68	2- [illegible]-54	7.4	740	---	0.28	---	264	36	---	--	--	--	--	--	32	2[illegible]	
		29	66	3- [illegible]-54	7.2	711	---	0.18	---	210	33	---	--	--	--	--	--	34	[illegible]	
		[illegible]	66	4- 6-54	7.3	732	---	0.24	---	195	43	---	--	--	--	--	--	34	---	
		[illegible]	74	5- 4-54	7.2	842	489	0.42	0.8	222	71	80	69	46	21	90	14	44	2[illegible]	
		1[illegible]	72	6- [illegible]-54	7.3	796	---	0.40	---	183	55	---	--	--	--	--	--	42	181	
		1[illegible]	77	7- 1-54	7.2	655	---	0.32	---	159	43	---	--	--	--	--	--	4[illegible]	172	
S18001 82-57.9 [illegible]	Warm Creek. S. of San Bernardino; at E St. bridge. S.B.Co.F.C.D. sample point No. 585.	------	--	3-13-29[a]	---	497	---	0.16	---	198	14	44	--	52	11	23	--	22	175[b]	
		------	--	7-27-37[h]	---	513	425	----	---	220	16	65	--	69	15	21	--	--	2[illegible][b]	CO_3 = 8 ppm.
		------	63	2-23-38	---	685	---	0.13	---	198	21	157	Tr.	88	13	33	--	21	2[illegible][b]	
		------	82	6- 1-38	---	655	---	0.28	---	195	23	149	2	79	20	32	--	26	[illegible]	
		------	84	8-31-38	---	624	---	0.12	---	193	23	120	3	76	7	50	--	3[illegible]	21[illegible]	
		------	--	11-28-38	---	679	---	0.18	---	204	23	136	2	66	19	46	--	[illegible]	2[illegible][b]	
		------	68	3- 7-39	---	666	---	0.24	---	203	28	139	18	83	13	42	--	[illegible]	2[illegible][b]	
		------	71	6-13-39	---	580	---	0.05	---	196	16	104	2	69	14	31	--	33	[illegible]	
		------	77	8-2[illegible]-39	---	560	---	----	---	210	15	90	1	66	13	31	--	[illegible]	21[illegible]	
		------	67	12- 8-39	---	540	---	----	---	239	13	82	0	67	19	28	--	31	21[illegible]	
		------	64	3-15-40	---	620	---	----	---	221	15	119	3	76	16	32	--	31	2[illegible]	
		------	75	6- 6-40	---	570	---	----	---	211	25	95	6	71	13	42	--	[illegible]	231[b]	
		15	48	11-14-46	---	267	---	0.10	---	92	5	60	Tr.	29	8	20	--	30	10[illegible]	
		------	63	1-20-47	---	470	---	0.00	---	206	13	68	9	59	12	43	--	33	1[illegible][b]	
		------	72	4-14-47	---	453	---	0.20	---	210	18	67	6	60	12	29	--	24	1[illegible][b]	
		------	--	12-15-47	---	455	---	0.20	---	223	13	64	9	63	14	29	--	32	21[illegible]	
		------	--	3- 8-48	---	439	---	0.00	---	211	13	59	7	62	13	31	--	34	[illegible]	
		------	--	11- 4-48	---	469	---	----	---	241	16	53	6	67	13	30	--	33	221[b]	
		------	--	1-27-49	8.1	444	---	0.09	---	220	16	78	6	67	15	31	--	33	2[illegible][b]	
		------	--	8-23-50	8.4	480	---	0.06	---	229	14	58	3	67	13	28	--	32	2[illegible]	
		------	--	1-23-51	7.8	500	---	0.02	---	238	11	59	9	68	13	26	--	20	2[illegible][b]	
		------	--	3- 1-51[c]	7.3	413	242	0.00	0.0	178	10	46	4	48	10	17	--	19	1[illegible]	
		------	--	3- 5-51	8.3	510	---	0.01	---	244	18	60	8	69	14	30	--	32	2[illegible][b]	
		12	72	8-13-51	7.9	535	---	----	---	242	19	---	--	--	--	--	--	--	270	
		12	--	8-20-51	8.2	560	---	----	---	250	18	54	8	69	13	49	--	32	2[illegible][b]	
		12.5	72	9-17-51	8.2	546	352	0.07	0.0	239	21	48	6	72	14	23	--	--	2[illegible][b]	
		------	64	10-16-51	7.2	554	---	----	---	259	20	---	--	--	--	--	--	--	280	
		13	66	11- 5-51	7.7	527	---	----	---	237	16	---	--	--	--	--	--	--	280	
		21.[illegible]	64	12- 4-51	8.4	568	---	----	---	254	18	---	--	--	--	--	--	--	250	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge, in second feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)													
S18001 82-57.9 -2.0	Warm Creek, at E St. bridge. (continued)	26	57	1- 7-52	7.5	492	---	0.06	---	210	15	---	--	--	--	--	--	--	217	
		23.5	63	2-18-52	7.7	651	---	0.04	---	230	52	---	--	--	--	--	--	--	322	
		35	61	3-17-52	7.8	388	---	----	---	129	13	---	--	--	--	--	--	--	157	
		20	70	4-14-52	7.6	392	---	----	---	171	16	---	--	--	--	--	--	--	187	
		30	73	5- 5-52[d]	8.5	436	---	0.05	0.4	170	10	68	4	54	11	19	3	18	180	
		20	79	6-16-52	8.0	492	---	----	---	237	19	---	--	--	--	--	--	--	233	
		20	77	7-14-52	7.9	500	---	----	---	237	24	---	--	--	--	--	--	--	248	
		10	63	8-12-52	8.5	534	---	----	---	246	22	---	--	--	--	--	--	--	258	CO_3 = 10 ppm.
		10	72	9- 8-52	7.8	566	---	----	---	246	22	---	--	--	--	--	--	--	254	
		10	68	10-15-52	7.8	571	358	0.01	0.6	246	21	58	6	74	15	24	4	--	247[b]	
		10	63	11-11-52	7.7	581	---	----	---	256	19	---	--	--	--	--	--	--	234	
		20	61	12- 9-52	7.6	578	---	----	---	249	18	---	--	--	--	--	--	--	256	
		40	57	1- 6-53	6.8	452	---	----	---	178	18	---	--	--	--	--	--	--	181	
		------	--	2- 9-53[c]	7.6	613	384	0.04	0.6	227	18	98	6	73	22	25	4	16	268	
		35	63	2-10-53	7.4	548	---	----	---	237	20	---	--	--	--	--	--	--	258	
		20	63	3-10-53	7.3	586	---	----	---	246	18	---	--	--	--	--	--	--	212	
		20	64	4- 6-53	7.6	500	---	0.10	---	234	21	---	--	--	--	27	--	--	233	
		20	75	5- 5-53	7.8	521	352	0.05	0.6	234	22	76	10	75	10	29	3	--	229[b]	
		20	73	6- 9-53	7.4	469	---	0.14	---	234	18	---	--	--	--	--	--	20	225	
		20	75	7- 7-53	7.2	456	---	0.12	---	222	14	---	--	--	--	--	--	24	212	
		20	73	8- 4-53	7.7	448	---	0.06	---	224	16	---	--	--	--	--	--	21	210	
		20	72	9- 8-53	7.3	490	316	0.08	0.6	220	14	53	4	67	10	25	3	20	208	
		15	68	10-14-53	7.9	483	---	0.14	---	222	13	---	--	--	--	--	--	20	209	
		14	68	11- 9-53	7.8	444	---	0.08	---	234	14	---	--	--	--	--	--	21	207	
		14	63	12- 7-53	7.8	522	---	0.14	---	237	15	---	--	--	--	--	--	20	219	
		35	54	1-12-54	7.6	400	---	0.16	---	168	13	---	--	--	--	--	--	21	153	
		20	66	2- 9-54	7.7	634	---	0.08	---	266	18	---	--	--	--	--	--	17	279	
		15	64	3- 9-54	7.7	607	---	0.06	---	271	14	---	--	--	--	--	--	17	271	
		------	--	3-18-54[c]	7.8	616	420	0.09	0.5	268	15	89	10	84	16	28	3	18	275	
		25	66	4- 6-54	7.4	534	---	0.08	---	220	13	---	--	--	--	--	--	18	230	
		25	75	5- 4-54	7.6	573	358	0.04	0.6	246	25	83	7	76	17	26	5	18	260	
		15	68	6- 9-54	7.7	635	---	0.10	---	251	11	---	--	--	--	--	--	18	273	CO_3 = 12 ppm.
		10	77	7- 1-54	7.8	571	---	0.06	---	273	15	---	--	--	--	--	--	18	262	
S18809 82-57.9 -3.4	Warm Creek. San Bernardino; at Rialto Ave. crossing. S.B.Co.F.C.D. sample point No. 180.	------	--	7-11-46[c]	7.8	545	284	0.00	---	208	20	75	21	42	13	34	3	33	159	CO_3 = 8 ppm.
		------	--	8- 8-46[c]	7.7	528	344	0.00	---	204	18	83	0	27	15	51	19	25	128	CO_3 = 5 ppm.
		------	--	9-11-46[c]	7.7	514	337	0.54	---	207	22	59	38	64	13	34	--	25	216	
		------	--	3- 7-47[c]	6.6	596	392	0.43	---	203	28	82	37	65	16	36	--	20	228	
		------	--	3- 4-48[c]	6.8	581	348	0.06	---	230	20	70	12	68	15	27	--	20	230	
		------	--	11-10-49[c]	7.8	543	335	----	0.3	237	18	60	15	64	13	22	--	18	214	
		------	--	12- 4-50[c]	7.5	487	324	0.04	0.3	222	18	42	7	64	11	25	--	21	206	
		------	--	3- 1-51[c]	7.1	346	206	0.11	0.0	134	9	37	6	36	12	13	--	17	139	
		------	--	4- 7-52[c]	7.0	310	225	0.06	0.5	144	15	36	6	40	9	17	--	22	135	
		------	--	3-18-54[c]	7.9	623	402	11.00	0.6	276	15	83	14	86	16	26	4	16	281	
S18828 82-57.9 -4.6	Warm Creek. San Bernardino; 100 feet N. of 6th St. bridge. S.B.Co.F.C.D. sample point No. 583.	------	--	3- 1-51[c]	7.1	466	268	0.16	0.1	149	20	59	4	44	8	29	--	31	141	
		------	--	4- 7-52[c]	7.3	550	405	0.12	0.5	251	25	80	14	70	15	39	--	26	237	
		------	--	1- 9-53[c]	7.4	684	442	0.17	0.9	210	37	103	18	73	16	42	7	26	249	
		------	--	3-18-54[c]	7.4	566	368	0.11	0.6	203	23	98	8	71	10	34	6	25	217	
S18829 82-57.9 -4.2	Warm Creek. San Bernardino; at Waterman Ave. crossing. S.B.Co.F.C.D. sample point No. 584.	------	--	3- 1-51[c]	7.4	504	331	0.05	0.2	173	22	82	12	61	14	30	--	24	211	
		------	--	2-25-53[c]	7.5	506	310	0.10	0.6	205	21	49	8	58	13	29	3	--	195	
		------	--	3-18-54[c]	7.6	695	444	0.16	0.8	251	21	127	16	91	17	36	4	21	294	
S18857 82-57.9 -6.8	Warm Creek. E. of San Bernardino; at Sterling Ave. crossing. S.B.Co.F.C.D. sample point No. 115.	------	--	12-29-44[c]	8.4	602	420	0.12	---	206	52	82	11	40	10	94	--	60	140	CO_3 = 6 ppm.
		------	--	1-30-45[c]	7.6	543	342	0.00	---	202	33	44	13	39	6	69	--	56	120	
		------	--	4- 7-52[c]	7.4	290	239	0.05	1.4	137	21	23	4	28	5	33	--	44	90	
		------	--	3-18-54[c]	7.4	1,266	723	0.21	3.0	232	246	49	25	60	15	170	11	60	211	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge, in second feet	Temperature in °F	Date and time sampled (1951)	pH	Conductivity (10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulfate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							STREAMS - (continued)													
S1[illegible]7A [illegible]-57.[illegible] -1.[illegible]	Warm Creek. E. of San Bernardino; at Base Line Ave. crossing.	1.0	--	1-18-52[c]	7.1	400	231	Tr.	1.1	139	29	36	10	25	8	42	--	--	95[b]	
S1[illegible] [illegible]-57.9 -7.3	Warm Creek. E. of San Bernardino; 30 feet downstream from waste pipe crossing from Base Line Laundry, 0.39 mile W. of Victoria Ave. S.B.Co.P.C.D. sample point No. 111.	------ ------	-- --	12-29-44[c] 3-18-54[c]	7.5 8.2	517 643	359 448	0.24 0.14	--- 0.8	110 212	38 15	101 40	4 37	12 73	3 13	133 41	-- 3	87 27	42 239	CO_3 = 7 ppm.
S1[illegible]7A [illegible]-57.9 -7.[illegible]	Warm Creek. E. of San Bernardino; 0.17 mile W. of Victoria Ave. S.B.Co. P.C.D. sample point No. 114.	------ ------ ------	-- -- --	12-29-44[c] 1-30-45[c] 3-18-54[c]	7.5 7.5 7.5	326 389 975	207 230 568	0.02 0.00 16.00	--- --- 1.6	128 146 210	28 29 145	18 18 52	30 35 65	21 34 45	6 4 12	25 40 135	-- -- 11	41 47 62	77 99 164	NH_3 = 2 ppm.
S1[illegible]01A [illegible]-57.[illegible] -2.3-3.6	Warm Creek, S. branch. S. of San Bernardino; at E St. bridge, 600 feet S. of Warm Creek. S.B.Co.P.C.D. sample point No. 180.	------ ------	-- --	3- 1-51[c] 3-18-54[c]	7.6 7.8	478 568	285 406	0.02 0.10	0.2 0.7	205 195	9 9	62 131	2 6	60 83	10 14	21 24	-- 3	19 16	188 264	
S1[illegible]20A [illegible]-57.[illegible] -5.3-3.6 -1.9	Waterman Canyon Creek. N. of San Bernardino; 0.7 mile N. of State Highway No. 18 along old Waterman Canyon Rd., at E. side of bridge; 0.2 mile S. of U.S.G.S. gaging station in NW¼ Sec.11, T. 1 N., R. 4 W., S.B.B.&M.	------ 3	-- --	9- 7-48 2- 8-49	8.5 8.4	392 270	--- ---	0.00 0.00	--- ---	199 211	11 9	--- 23	0 2	42 33	-- 11	25 30	-- --	-- 33	--- 128[b]	CO_3 = 18 ppm.
S1[illegible]21A [illegible]-57.5 -5.3-3.6 -1.3	Waterman Canyon Creek. N. of San Bernardino; 0.35 mile N. from State Highway No. 18 along road to Arrowhead Springs Hotel, S. side of bridge.	------ 3	-- --	9- 7-48 2- 8-49	8.9 8.2	1,282 403	--- ---	2.46 0.45	--- ---	79 137	68 14	--- 70	0 2	33 35	-- 10	238 47	-- --	-- 44	--- 129[b]	CO_3 = 24 ppm.
S1[illegible]22 [illegible]-57.[illegible] -5.3-3.[illegible] -8.3	Waterman Canyon Creek. N. of San Bernardino; at diversion weir, 750 feet SW. of N¼ corner, Sec.14, T. 1 N., R. 4 W., S.B.B.&M.	1 0.03 ------ ------ ------ ------ 4 ----	-- -- -- -- C3 -- --	1- 9-29[a] 12-14-51[d] 9-13-52[a] 1-17-53[a] 2-23-58 9- 7-48 2- 8-49 8-28-50	--- --- --- --- --- --- 8.0 8.4	761 596 1,310 543 418 1,220 422 1,250	--- --- --- --- --- --- --- ---	0.79 0.55 2.16 0.45 0.28 2.22 0.78 2.10	--- --- --- --- --- --- --- ---	146 108 114 152 147 116 142 122	36 23 101 21 14 10 17 64	203 116 399 110 61 --- 90 619	-- 1 Tr. 1 0 0 2 17	40 38 36 37 42 36 35 38	14 11 10 12 3 -- 10 14	102 69 233 47 42 232 51 233	-- -- -- -- -- -- -- --	58 51 79 42 44 -- 46 77	158[b] 140[b] 131[b] 142[b] 117[b] --[b] 129[b] 152[b]	
S18122A 82-57.9 -5.3-3.6 -0.2	Waterman Canyon Creek. N. of San Bernardino; 1,500 feet N. of 40th St. S.B.Co.P.C.D. sample point No. 750.	------	--	4- 7-52[c]	7.0	280	207	0.09	0.8	115	14	40	3	28	6	25	--	35	101	
S18139 82-59.6 -8.5-0.1	Yucaipa Creek. S. of Redlands; at junction with San Timoteo Creek. S.B. Co.P.C.D. sample point No. 143.	------ 0.25	-- --	2-14-45[c] 2-21-49	8.4 8.5	641 621	387 ---	0.00 0.00	--- ---	284 352	35 34	35 59	9 Tr.	67 69	20 20	79 63	-- --	34 35	250[b] 250	
							LAKES AND SPRINGS													
[illegible]	Rocquet Lake. N. of Highgrove; 0.25 mile NW. of La Cadena Dr., 0.15 mile N. of Riverside County line. S.B.Co. P.C.D. sample point No. 571.	------ ------ ------ ------ ------	-- -- -- -- --	1-25-51[c] 6-11-51[c] 6-11-51[c] 9-11-52[c] 10-13-53[c]	8.6 7.8 7.9 8.0 8.2	594 609 588 980 1,200	387 380 397 671 845	0.11 0.70 0.74 0.26 0.41	0.2 0.2 0.1 1.0 1.2	227 156 139 331 198	38 62 64 63 91	61 67 74 170 292	14 6 10 19 30	64 43 39 112 115	12 14 15 27 25	42 55 51 68 100	-- -- -- 8 10	-- 42 41 27 35	206 165 158 384 390	CO_3 = 5 ppm. E. end of lake. W. end and S. end, combined.
S17967	Dahl Lake. N. of Highgrove; 600 feet N. and 2,000 feet E. of intersection of Main St. and La Cadena Dr., at outlet on W. side of A.T.&S.F.R.R. S.B.Co.P.C.D. sample point No. 572.	------ ------ ------	-- -- --	1-25-51[c] 9-11-52[c] 10-13-53[c]	7.6 8.0 7.5	455 1,110 1,340	291 264 1,025	0.60 0.12 0.61	0.3 --- 2.0	184 314 147	47 72 104	42 291 400	7 35 37	24 132 133	6 25 29	34 68 113	9 8 11	42 31 35	84 427 452	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station	Location and description	Discharge, in second feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						LAKES AND SPRINGS - (continued)														
S17967A	Dahl Lake. N. of Highgrove; 600 feet N. and 2,000 feet E. of intersection of La Cadena Dr. and Main St., at outlet on E. side of A.T.&S.F.R.R. S.B.Co.F.C.D. sample point No. 828.	------	---	9-11-52[c]	8.0	1,230	898	0.23	1.2	332	77	351	39	147	37	44	5	16	502	
S18319A	Inland Lake. San Bernardino; 200 feet N. of 5th St., 300 feet E. of Lugo Ave. S.B.Co.F.C.D. sample point No. 895.	------	---	2-25-53[c]	8.2	427	248	0.03	0.5	220	12	25	2	50	17	14	3	13	191	
S18821	Arrowhead steam caves. N. of San Bernardino; in Waterman Canyon, 400 feet E. of old Waterman Canyon Rd., 1,200 feet W. of road to Arrowhead Springs Hotel. Also 900 feet N. and 500 feet W. of center of Sec. 11, T. 1 N., R. 4 W., S.B.B.&M.	0.02 ------ 0.2	--- --- ---	3-12-30[a] 8-12-31[a] 2- 8-49	--- --- 8.2	1,250 1,633 1,419	--- --- ---	2.06 2.94 4.52	--- --- ---	104 88 77	51 84 84	419 545 546	-- 1 Tr.	39 32 31	6 7 2	216 303 322	-- -- --	79 86 89	122[b] 109[b] 86[b]	
S18831A	Perryugal Springs. N. of San Bernardino; 350 feet NW. of Arrowhead Springs Hotel, 420 feet N. and 680 feet W. of E¼ corner, Sec. 11, T. 1 N., R. 4 W., S.B.B.&M., W. side of Mud Creek.	0.02 0.02	--- 202	3-12-30[a] 2- 8-49	--- 8.4	1,490 1,428	--- ---	2.64 4.57	--- ---	82 75	73 82	492 544	-- 0	29 29	4 3	272 319	-- --	87 89	89[b] 85[b]	
S18831B	Granite Spring. N. of San Bernardino; 450 feet W. of Arrowhead Springs Hotel, 140 feet N. and 1,050 feet W. of E¼ corner, Sec. 11, T. 1 N., R. 4 W., S.B.B.&M.	0.06 0.08	--- ---	3-12-30[a] 2- 8-49	--- 8.3	1,520 1,333	--- ---	2.64 4.09	--- ---	79 79	69 78	498 509	-- 0	26 27	4 4	276 297	-- --	88 89	81[b] 84[b]	
S18831C	Unnamed spring. N. of San Bernardino; 50 feet SW. of Arrowhead Springs Hotel, 200 feet S. and 575 feet W. of E¼ corner, Sec. 11, T. 1 N., R. 4 W., S.B.B.&M.	0.01	148	2- 8-49	8.2	1,227	---	3.81	---	92	69	459	0	31	1	265	--	88	82[b]	
S18831D	Unnamed spring. N. of San Bernardino; 300 feet NE. of Arrowhead Springs Hotel, at E¼ corner, Sec. 11, T. 1 N., R. 4 W., S.B.B.&M.	------	---	2- 8-49	8.2	1,308	---	3.95	---	87	73	478	Tr.	31	2	278	--	88	86[b]	
S18842	Lady Margaret Sharp Warm Spring. N. of San Bernardino; 1,140 feet N. and 350 feet E. of intersection of Lier Dr. and 40th St.; 50 feet E. of Lier Dr., 25 feet N. of NE. corner of house.	------ ------	--- ---	9-22-32[a] 1- 4-49	--- 8.3	360 302	--- ---	0.44 0.35	--- ---	125 134	16 13	37 39	1 Tr.	21 22	5 5	51 48	-- --	60 58	73[b] 76[b]	
S18842A	Rancho del Vista Spring. N. of San Bernardino; 1,100 feet N. and 450 feet E. of intersection of Lier Dr. and 40th St.; 150 feet E. of Lier Dr., 100 feet E. of house.	------	---	1- 4-49	8.0	282	---	0.27	---	132	15	30	Tr.	22	6	42	--	53	80[b]	
S18842B	Unnamed spring. NE. of San Bernardino; Champion Ranch, at N. end of Mountain Ave. S.B.Co.F.C.D. sample point No. 240.	------ ------	--- ---	Sept., 1947[c] 3- 3-53[c]	6.8 7.7	237 314	186 118	0.00 0.05	1.2 1.4	162 161	14 16	9 8	-- 1	20 25	21 13	36 25	-- 2	36 31	138 116	
S18854	Bromilow Spring. NE. of San Bernardino; 820 feet N. of Foothill Dr., 620 feet W. of Sterling Ave. S.B.Co. F.C.D. sample point No. 477.	0.04	---	6-12-50[c]	9.0	607	394	2.21	1.0	33	19	146	0	1	4	125	--	94	19	CO_3 = 23 ppm.
S18[illegible]4	Unnamed spring. NE. of San Bernardino; 0.2 mile E. of Orange St., 200 feet N. of Foothill Dr., 100 feet N. of house.	------	---	1- 4-49	8.1	336	---	1.26	---	80	21	56	0	6	2	73	--	88	23[b]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station number	Location and description	Discharge, in second-feet	Temperature, in °F	Date and time sampled (PST)	pH	Conductivity (EC x10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
						LAKES AND SPRINGS - (continued)														
S18885	Unnamed spring. E. of San Bernardino; 600 feet N. of Citrus St., 500 feet E. of Grand Ave.	------	---	1-20-49	---	432	---	0.30	---	183	16	79	0	45	21	27	--	23	199[b]	
S18885A	Unnamed spring. E. of San Bernardino; 300 feet N. of Citrus St., 1,000 feet W. of Grand Ave.	------	---	1-20-49	---	261	---	0.00	---	154	6	16	Tr.	22	11	25	--	35	100[b]	
S19937	Bath Tub Spring. NE. of Redlands; 1,600 feet N. of mouth of Warm Springs Canyon, on E. side of Santa Ana River. One-inch pipe hammered into crevice, 7 feet above the ground.	------ ------	140 ---	4-12-31[a] 2- 8-49	--- 8.4	1,280 1,143	--- ---	0.42 0.73	--- ---	43 31	11 13	542 554	-- 0	54 54	0 1	221 228	-- --	78 78	135[b] 130[b]	
S19935	Big Bear Lake (Bear Valley Reservoir). NE. of San Bernardino; at Moon Bay, between Fisher Cove and Boulder Bay; SW. end of lake. S.B.Co.F.C.D. sample point No. 218.	------ ------	--- ---	5-24-51[c] 9- 9-52[c]	8.5 8.7	252 101	164 137	0.00 0.00	0.1 0.0	132 119	8 7	10 10	2 0	23 26	13 12	13 7	-- 2	21 10	111 117	CO_3 = 12 ppm. CO_3 = 7 ppm.
						MISCELLANEOUS SURFACE WATERS														
S17782A	Borrow pit. SE. of Etiwanda; 400 feet N. of San Bernardino Ave., 0.5 mile E. of Etiwanda Ave., 50 feet E. of San Sevaino Channel. Includes industrial waste from nearby foundary. S.B.Co. F.C.D. sample point No. 151.	------ ------	-- --	5- 1-45[c] 8- 7-45[c]	9.2 8.0	234 398	--- ---	0.04 0.08	--- ---	74 183	2 19	14 15	2 20	37 43	6 8	21 21	2 0	28 25	116 138	CO_3 = 21 ppm. CO_3 = 14 ppm.
S 17784	Borrow pit. SE. of Etiwanda; 1,000 feet S. of Slover Ave., 0.5 mile E. of Etiwanda Ave. Includes industrial waste from Kaiser Steel Corporation plant. S.B.Co.F.C.D. sample point No. 346.	------	---	10-26-48[c]	8.8	682	414	1.20	2.0	46	101	143	13	34	12	59	24	44	133	CO_3 = 23 ppm.
S18071	Discharge from reservoir. SW. of Redlands; 0.25 mile S. of Barton Rd., on W. side of California St. Reservoir located 4,900 feet S. of Barton Rd. and 500 feet W. of Whittier Ave.	0.5	--	2-21-49	8.2	310	---	0.11	---	124	6	66	Tr.	29	8	42	--	46	105[b]	
MAINS																				
S19981A	[illegible]. of Arlington; at SW. side of McKinley St. bridge, 0.2 mile NW. of Magnolia Ave., and NW. of A.T.&S.F.R.R.	------ ------	-- --	3-10-49 3- 2-50	8.2 7.7	1,753 2,060	--- ---	0.23 0.32	--- ---	350 485	318 404	198 206	50 35	88 137	64 68	237 266	-- --	50 48	483[b] 622	
S16763	SE. of Chino; N. side of Robles Rd., 660 feet E. of Euclid Ave. S.B.Co. F.C.D. sample point No. 46.	------ ------ ------ ------	-- -- -- --	9- 3-43[c] 9-18-43[c] 1-26-44[c] 2-13-45[c]	7.7 7.7 7.2 7.3	1,125 1,056 1,157 1,109	682 576 537 724	0.00 0.00 0.29 0.12	--- --- --- ---	449 433 493 422	79 81 58 49	85 32 130 143	43 70 7 45	100 96 120 118	38 30 31 33	109 87 90 96	-- -- -- --	37 34 31 33	404 353 429 431	
S16763A	NE. of Norco; 200 feet S. of S.end of Mark St., 0.25 mile E. of Etiwanda Ave., between main channel of Santa Ana River and N. bank. S.B.Co.F.C.D. sample point No. 45[illegible].	------ ------ ------ ------ ------ ------ ------ ------	-- -- -- -- -- -- -- --	6-13-50[c] 7-25-50[c] 11- 6-50[c] 2-14-51[c] 8-22-51[c] 6- 9-52[c] 1-26-53[c]	7.9 8.2 8.0 7.8 8.3 8.4 8.1	988 969 914 887 1,010 890 972	664 648 578 562 660 643 582	0.46 0.27 0.14 0.36 0.07 0.14 0.04	0.3 0.2 0.3 0.3 0.0 0.6 0.6	190 201 246 205 178 215 205	85 88 96 90 88 101 101	208 179 74 72 235 173 169	7 7 18 18 3 7 0	82 83 92 90 81 99 70	25 25 20 14 28 21 31	88 84 63 76 95 94 80	-- -- -- -- -- -- 7	38 37 30 37 40 38 36	308 310 313 284 316 333 299	CO_3 = 10 ppm. CO_3 = 8 ppm. CO_3 = 24 ppm.
S17784	SE. of Etiwanda; N. gutter of San Bernardino Ave., E. side of San Sevaino Channel, 0.5 mile E. of Etiwanda Ave. Includes industrial waste from Kaiser Steel Corporation plant. S.B.Co.F.C.D. sample point No. 129. On 5-16-47, first analysis was of sample at start of runoff; second analysis was of sample one hour later.	------ ------ ------ ------ ------ ------ ------ ------ ------	-- -- -- -- -- -- -- -- --	2- 7-45[c] 3-25-45[c] 5- 1-45[c] 8- 7-45[c] 11- 2-45[c] 5-27-46[c] 10-31-46[c] 5-16-47[c] 5-16-47[c]	8.9 8.4 10.0 7.6 [illegible].0 8.4 8.6 9.2 9.2	359 386 403 332 274 245 187 325 265	235 237 204 180 200 --- 145 212 165	0.34 0.95 0.68 0.55 0.00 0.06 0.19 1.57 0.30	--- --- --- --- --- --- 0.0 0.0 0.0	61 110 0 105 80 106 68 [illegible] 90	22 18 14 27 19 11 8 18 13	41 48 42 24 6 28 24 [illegible] 17	7 16 4 12 20 2 29 26 16	40 38 54 21 22 24 23 20 22	5 9 Tr. 8 9 4 7 10 11	24 60 27 29 18 26 14 25 17	-- -- 3 0 2 0 -- 19 8	30 50 32 43 31 42 25 40 31	121 131 137 [illegible] 92 79 86 [illegible] 89	CO_3 = 19 ppm. CO_3 = [illegible] ppm. CO_3 = 7 ppm. CO_3 = 24 ppm. CO_3 = [illegible] ppm. CO_3 = 24 ppm.

[illegible]	[illegible]	Discharge, in [illegible]	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (EC×10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
					MISCELLANEOUS SURFACE WATERS - (continued)															
DRAINS - (continued)																				
[illegible]8	Highgrove; W. side of Transit Ave., at Riverside County line. Includes industrial waste from citrus packing plant. S.B.Co.F.C.D. sample point No. 438.	------ ------ ------ ------	-- -- -- --	1-23-50[c] 1-25-51[c] 9-11-52[c] 10-13-53[c]	8.4 7.9 7.8 8.3	882 575 687 760	576 410 458 475	11.90 0.45 0.11 0.00	0.2 0.2 0.7 0.9	220 217 280 274	122 59 6 57	40 23 78 69	26 17 27 22	78 68 66 81	18 11 11 16	80 32 55 50	-- -- 4 6	39 25 36 28	270 214 202 268	CO_3 = 19 ppm.
S17985	SE. of Colton; NW. corner of Washington St. and Mt. Vernon Ave. Includes well water and industrial waste from dairy. S.B.Co.F.C.D. sample point No. 260.	------	--	3- 4-48[c]	7.9	655	414	0.13	0.9	273	28	61	17	66	16	41	0	28	239	
S18020A	S. of San Bernardino; E. side of Waterman Ave., 900 feet N. of Mill St. S.B.Co.F.C.D. sample point No. 869.	------	--	1- 9-53[c]	6.4	1,271	1,052	0.06	0.6	93	24	571	5	205	38	33	5	10	667	
S18060	E. of San Bernardino; 1,275 feet S. of Cardiff Ave., 2,100 feet W. of Tippecanoe Ave., in Norton Air Force Base, at confluence of middle and south drains. Includes sewage, industrial waste, and rising water. S.B.Co.F.C.D. sample point No. 211.	------ ------ ------	-- -- --	2-21-47[c] 6-30-49[c] 3-21-52[c]	7.0 6.0 5.7	312 540 1,630	220 379 1,814	0.28 ---- 0.05	--- 0.0 1.1	117 142 17	9 20 26	54 137 1,080	35 0 3	34 60 333	11 14 58	15 36 57	5 -- 9	19 27 10	129 208 1,069	
S18060A	E. of San Bernardino; 1,275 feet S. of Cardiff Ave., 1,950 feet W. of Tippecanoe Ave., in Norton Air Force Base, at middle of three drains. S.B.Co.F.C.D. sample point No. 867.	------	--	1- 9-53[c]	7.0	369	262	0.04	0.6	161	14	34	0	49	6	22	2	--	148	
S18060B	E. of San Bernardino; 1,500 feet S. of Cardiff Ave., 2,100 feet W. of Tippecanoe Ave., in Norton Air Force Base, at south of three drains. S.B.Co.F.C.D. sample point No. 868.	------	--	1- 9-53[c]	7.5	309	190	0.06	0.6	144	12	26	4	39	8	18	2	--	129	
S18796	San Bernardino; Highland Ave. at Lincoln Dr. S.B.Co.F.C.D. sample point No. 128. Analysis on 11-10-49 includes industrial waste from Culligan Zeolite Co.	------ ------	-- --	2- 2-45[c] 11-10-49[c]	6.5 8.8	136 110	--- 658	0.14 ----	--- ---	28 68	2 11	40 166	0 5	17 12	6 34	18 11	-- --	37 13	67 168	SiO_2 = 381 ppm.
S18797	San Bernardino; 16th and I Sts. Includes industrial waste from Culligan Zeolite Co. S.B.Co.F.C.D. sample point No. 423.	------	--	11-10-49[c]	7.7	99	85	----	---	49	6	33	8	1	11	11	--	32	48	
S18977	E. of San Bernardino; 800 feet N. of Base Line Rd., E. side of Victoria Ave., at Warm Creek. S.B.Co.F.C.D. sample point No. 125.	------ ------ ------	-- -- --	1-30-45[c] 4- 3-52[c] 3-18-54[c]	8.0 7.4 7.6	275 450 971	172 342 555	0.01 0.10 0.16	--- 1.2 1.2	112 135 193	18 36 145	10 35 53	10 26 90	18 31 47	5 12 12	53 60 135	-- -- 12	65 51 62	63 126 166	
S18886	NE. of San Bernardino; 600 feet S. of Highland Ave., 450 feet W. of Central Ave., above Patton State Hospital Sewage Plant. S.B.Co.F.C.D. sample point No. 279.	------ ------ ------ ------ ------ ------ ------	-- -- -- -- -- -- --	4-12-48[c] 6-30-48[c] 1-15-51[c] 10-16-51[c] 10-31-52[c] 4-20-53[c] 10-22-53[c]	--- 8.6 8.0 8.2 7.4 7.2 7.1	--- 378 1,240 460 574 570 800	--- 264 789 339 353 427 560	0.71 0.00 0.22 0.11 0.05 0.21 0.22	--- 0.6 0.8 --- 0.8 2.7 1.0	--- 102 373 173 200 220 203	--- 23 176 22 45 42 56	--- 38 7 42 43 47 77	-- 23 0 27 31 Tr. 45	-- 59 47 29 37 38 33	-- 10 13 6 18 9 13	96 34 187 61 52 68 135	-- -- -- -- 10 7 7	-- 28 66 58 38 50 67	--- 190 172 96 165 132 136	CO_3 = 33 ppm. CO_3 = 17 ppm. CO_3 = 31 ppm.
SLOUGHS																				
S16777	Reynolds Slough, NW. of Corona; 4,500 feet W. and 3,100 feet S. of intersection of Hellman Ave. and River Rd. S.B.Co.F.C.D. sample point No. 531.	------ ------	-- --	11-24-31[a] 8-14-50[c]	--- 7.6	690 648	--- 440	---- 0.00	--- 0.3	329 346	28 29	35 31	-- 14	64 67	21 22	46 32	-- --	29 22	246[b] 256	
S18020C	S. of San Bernardino; 1,600 feet N. of Mill St., 1,050 feet E. of Waterman Ave., NE. of Timber Creek culvert under P.E.R.R. S.B.Co.F.C.D. sample point No. 871.	------	--	1- 9-53[c]	5.2	1,672	1,570	0.02	1.0	10	21	917	38	298	54	33	8	7	965	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge in second feet	Temperature in °F	Date and time sampled (P.S.T.)	pH	Conductivity (Micromhos at 25°C.)	Total dissolved solids, in ppm	Mineral constituents in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
					MISCELLANEOUS SURFACE WATERS - (continued)															
SLOUGHS-(continued)																				
S18020D	S. of San Bernardino; 1,500 feet N. of Mill St., 1,000 feet E. of Waterman Ave., SE. of Timber Creek culvert under P.E.R.R. S.B.Co.F.C.D. sample point No. 872.	------	--	1- 9-53[c]	5.2	1,568	1,398	0.13	0.9	20	23	864	7	268	48	39	8	10	864	
S18020E	S. of San Bernardino; 950 feet N. of Mill St., 1,200 feet E. of Waterman Ave., E. side of P.E.R.R. S.B.Co.F.C.D. sample point No. 873.	------	--	1- 9-53[c]	5.7	1,213	981	0.08	0.6	32	18	576	4	184	37	26	8	3	611	
S18020F	S. of San Bernardino; 1,550 feet N. of Mill St., 650 feet E. of Waterman Ave., W. side of P.E.R.R., near curve in Timber Creek. S.B.Co.F.C.D. sample point No. 874.	------	--	1- 9-53[c]	4.7	1,428	1,250	0.12	0.6	5	27	749	6	238	34	46	7	12	735	
S18828C	E. of San Bernardino; 0.75 mile W. of Tippecanoe Ave., 0.1 mile S. of 9th St. S.B.Co.F.C.D. sample point No. 875.	------	--	1- 9-53[c]	6.7	147	101	0.00	0.4	61	4	19	1	17	4	3	5	9	58	
RISING WATER																				
S16854A	N. of Norco; at Arrow S Ranch, N. of Hamner Ave. bridge over Santa Ana River.	------	--	3- 9-48	---	563	---	0.00	---	307	38	25	4	70	11	56	--	36	220[b]	
S18002	S. of San Bernardino; 10 feet N. of Cline St., 60 feet E. of E St. S.B. Co.F.C.D. sample point No. 893.	------	--	2- 9-53[c]	6.5	1,690	1,436	0.39	1.0	163	45	796	6	250	56	88	12	18	842	
S18002A	S. of San Bernardino; 0.7 mile N. of E St. bridge over Santa Ana River, 25 feet E. of E St. S.B.Co.F.C.D. sample point No. 892.	------	--	2- 9-53[c]	7.0	954	713	0.00	0.8	159	21	355	2	135	31	34	5	14	460	
S18002B	S. of San Bernardino; 0.7 mile N. of E St. bridge over Santa Ana River, 30 feet E. of E St. S.B.Co.F.C.D. sample point No. 891.	------	--	2- 9-53[c]	7.5	763	532	0.00	0.6	227	17	204	1	109	23	28	3	14	362	
S18002C	S. of San Bernardino; 0.65 mile N. of E St. bridge over Santa Ana River, 20 feet E. of E St. S.B.Co.F.C.D. sample point No. 890.	------	--	2- 9-53[c]	6.9	863	599	0.00	0.5	176	20	297	2	122	29	29	4	13	420	
S18002D	S. of San Bernardino; 0.48 mile N. of E St. bridge over Santa Ana River, 75 feet E. of E St. S.B.Co.F.C.D. sample point No. 889.	------	--	2- 9-53[c]	6.9	381	244	0.33	1.2	146	20	39	4	36	9	35	2	37	1[illegible]7	
[illegible]	S. of San Bernardino; 0.4 mile N. of E St. bridge over Santa Ana River, 75 feet E. of E St. S.B.Co.F.C.D. sample point No. 888.	------	--	2- 9-53[c]	6.4	663	493	0.12	0.6	88	14	241	3	85	20	24	4	15	291	
S18002P	S. of San Bernardino; 0.35 mile N. of E St. bridge over Santa Ana River, 100 feet E. of E St. S.B.Co.F.C.D. sample point No. 887.	------	--	2- 9-53[c]	6.7	814	603	0.39	0.6	100	20	306	4	101	29	30	4	15	366	
S18002Q	S. of San Bernardino; 0.28 mile N. of E St. bridge over Santa Ana River, 50 feet E. of E St. S.B.Co.F.C.D. sample point No. 886.	------	--	2- 9-53[c]	7.8	1,380	1,157	0.19	0.7	207	25	571	3	220	49	44	5	11	743	
S 18002H	S. of San Bernardino; 0.28 mile N. of E St. bridge over Santa Ana River, 75 feet E. of E St. S.B.Co.F.C.D. sample point No. 885.	------	--	2- 9-53[c]	7.4	1,220	1,015	0.11	0.8	205	18	508	2	192	45	35	7	10	[illegible]	

MINERAL ANALYSES OF SURFACE WATERS

(CONTINUED)

Location and station numbers	Location and description	Discharge, in second-feet	Temperature, in °F.	Date and time sampled (PST)	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
					MISCELLANEOUS SURFACE WATERS - (continued)															
RISING WATER - (continued)																				
S18002I	S. of San Bernardino; 0.18 mile N. of E St. bridge over Santa Ana River, 50 feet E. of E St. S.B.Co.F.C.D. sample point No. 884.	------	--	2- 9-53[c]	7.6	1,220	984	0.15	1.0	224	19	504	2	191	46	40	5	13	659	
S18003A	S. of San Bernardino; 100 feet N. of E St. bridge over Santa Ana River, E. side of E St. S.B.Co.F.C.D. sample point No. 883.	------	--	2- 9-53[c]	7.6	540	331	0.09	1.2	229	19	65	2	62	16	32	2	24	216	
S18003B	E. of Colton; 500 feet N. of U. S. Highway No. 70/99, 50 feet E. of E St. S.B.Co.F.C.D. sample point No. 881.	------	--	2- 9-53[c]	8.0	682	397	0.07	1.1	293	50	48	4	46	22	75	4	44	202	
S18828B	E. of San Bernardino; N. side of 6th St., 1,400 feet E. of Waterman Ave., E. side of Warm Creek. S.B.Co.F.C.D. sample point No. 876.	------	--	1- 9-53[c]	7.7	836	542	0.25	1.0	297	39	138	2	88	23	58	5	28	316	
CANALS																				
S16031	Riverside Canal. SW. of Arlington; 600 feet SE. of Arizona Ave., at SW. side of Taylor St.	------	--	6-21-48	---	535	---	0.00	---	224	41	43	27	67	14	41	--	--	225[b]	
S17062	Gage Canal. E. of Riverside; 1,225 feet W. of Canyon Crest Dr., at N. side of 8th St.	------	--	11-19-28[a]	---	355	---	0.19	---	155	12	31	--	45	--	30	--	38	---	
		------	--	9- 3-30[a]	---	489	---	0.07	---	195	16	48	--	56	13	18	--	17	193[b]	
		------	--	9-11-31[a]	---	469	---	0.06	---	195	21	47	10	53	11	33	--	29	178[b]	
		------	--	9- 2-32[a]	---	502	---	0.05	---	217	21	49	15	67	14	22	--	18	225[b]	
		------	--	3-10-49	7.9	333	---	0.04	---	135	15	36	7	32	9	29	--	35	117[b]	
S17062A	Gage Canal. E. of Riverside; 1,100 feet E. of Iowa Ave., S. side of 12th St. at intake for University of California, Agricultural Experiment Station.	------	--	5-12-50	---	500	---	0.08	---	220	20	48	16	27	16	31	--	--	133[b]	
S17992	Meeks and Daly Canal. NE. of Colton; at diversion from Warm Creek, 400 feet SW. of Knoll Dr., 150 feet SE. of Scenic Dr.	------	--	1-26-49	8.1	444	---	0.03	---	238	23	78	2	71	15	34	--	23	239[b]	
S17993A	Meeks and Daly Canal. E. of Colton; N. side of F St., 0.24 mile E. of Mt. Vernon Ave.	------	--	5-16-32[a]	---	433	---	0.14	---	198	11	44	2	55	13	24	--	21	191[b]	
		------	73	8-12-37	---	510	---	0.12	---	234	14	53	2	65	13	28	--	22	216[b]	
		------	--	1-23-51	7.5	590	---	0.10	---	238	35	60	23	63	13	46	--	32	216[b]	
S17993B	Riverside Canal. E. of Colton; 485 feet S. of F St., 75 feet E. of Mt. Vernon Ave., at diversion from Warm Creek. S.B.Co.F.C.D. sample point No. 347.	------	--	1-26-49	7.8	469	---	0.24	---	218	22	78	11	64	14	39	--	28	218[b]	
S18024	Gage Canal. W. of Loma Linda; 50 feet N. of Barton Rd., 150 feet E. of Waterman Ave., at No. 1 weir.	------	--	7- 7-49[h]	---	460	---	----	---	189	48	23	--	66	8	18	--	16	198[b]	

a Analysis copied from Division of Water Resources Bulletin No. 40-A, "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters". 1933.
b Calculated by Division of Water Resources.
c Analysis by San Bernardino County Flood Control District.
d Analysis by United States Department of the Interior, Geological Survey, Water Resources Division, Quality of Water Branch, Davis and Sacramento, California. Unpublished records, subject to revision.
e Analysis by Pacific Chemical Consultants, Van Nuys, California.
f Analysis by Carl Wilson Laboratory, Los Angeles, California.
g Analysis by The Metropolitan Water District of Southern California, F. E. Weymouth Memorial Softening and Filtration Plant, LaVerne, California.
h Analysis by Edward S. Babcock and Sons, Riverside, California.
i Sample includes Colorado River water discharged into Santa Ana River channel, north of Arlington, from pipe line of The Metropolitan Water District of Southern California.

All analyses by Division of Water Resources, except as noted.

4. GROUND WATER QUALITY

A compilation of ground water analyses is presented in Table 2, entitled, "Mineral Analyses of Ground Waters". Mineral constituents included in this table have been previously discussed.

Ground Water Sampling Station Numbering System

In Table 2, analyses are listed numerically by "serial" well number and are grouped according to ground water basin. The "serial" well numbering system was utilized in Bulletin No. 40-A and is defined in the Division's report, "South Coastal Basin Investigation, Records of Ground Water Levels at Wells", Bulletin No. 39, 1932.

The "state" or "base and meridian" well number, based on the township, range, and section subdivision of the Federal Land Survey, is also shown in Table 2. In addition, all wells shown on Plates 3-A, 3-B, 3-C, and 3-D, are numbered using this system, which is employed by the United States Geological Survey. In the portions of Upper Santa Ana Valley not so subdivided, the township, range, and section lines have been projected and are not to be interpreted as being legal boundaries.

Under the system, each section is divided into 40-acre plots which are lettered as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

20

Wells are numbered within each of these 40-acre plots according to the order in which they are located. For example, a well having a number 7S/5W-20M1 would be found in the NW$\frac{1}{4}$ of SW$\frac{1}{4}$ of Section 20 (40-acre plot lettered "M") in Township 7 South, Range 5 West. All "state" well numbers in this report refer to San Bernardino Base and Meridian.

A cross index between the two well numbering systems employed is presented in Appendix B.

Ground Water Basin Numbering System

The ground water basins delineated on Plates 3-A, 3-B, 3-C, and 3-D are numbered according to the system established in the Division's report, "Ground Water Basins in California, Water Quality Investigations Report No. 3", dated November, 1952.

TABLE 2

MINERAL ANALYSES OF GROUND WATERS

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							ARLINGTON BASIN													
B-1[illegible]41 [illegible]-1[illegible]1	W. of Arlington; 150 feet NE. of Holden Ave., 0.25 mile NW. of Hole Ave. Owner: J.C. Duerksen, old well. Use: Domestic and irrigation. Casing: 12 inches.	730	40	7- 8-31[a]	---	2,050	---	0.36	---	372	350	171	75	102	48	269	---	56	452[b]	
				5- 4-32[a]	---	1,610	---	0.27	---	400	247	134	27	96	40	210	---	53	404[b]	
				2-24-47	---	1,500	---	0.10	---	452	147	232	39	101	43	216	---	52	428[b]	
B-165a 3S/6W-15R1	SW. of Arlington; 0.47 mile NW. of Magnolia Ave., 0.23 mile NE. of Pierce St. Owner: La Sierra Academy, well No. 1. Use: Domestic and irrigation. Gravel 18-27; 35-54; 81-150.	694	150	Dec., 1930[a]	---	-----	---	---	---	256	138	---	---	---	---	---	---	---	---	
				12- 3-53	7.6	1,508	922	0.22	0.5	344	232	117	47	135	30	140	4.5	---	461[b]	
B-1[illegible]4 [illegible]-14R1	SW. of Arlington; 0.20 mile NW. of Magnolia Ave., 15 feet NE. of Golden Ave., 20 feet SW. of new well. Owner: Alvord Mutual Water Co., Plant No. 1. Use: Irrigation.	699	---	8- 5-29[a]	---	-----	---	---	---	244	118	72	---	79	16	81	---	40	264[b]	
				10- 5-31[a]	---	-----	---	---	---	---	96	---	---	---	---	---	---	---	---	
				11-30-31[a]	---	-----	---	---	---	275	103	71	---	74	17	86	---	42	250[b]	
				7-30-47	---	1,000	---	0.10	---	312	95	80	44	82	19	103	---	44	280[b]	
B-16[illegible]b 3S/6W-15N1	SW. of Arlington; 1,380 feet SE. of Magnolia Ave., 1,260 feet SW. of Polk St. Owner: Daly Water Co., Inc., well No. 1. Use: Irrigation. Casing: 15 inches. Perforated 66-86; 90-112.	709	112	Aug., 1918[a]	---	-----	---	---	---	250	215	88	32	92	35	117	---	40	374[b]	
				Oct., 1918[a]	---	-----	---	---	---	244	230	88	9	90	32	124	---	43	356[b]	
				11-27-53[c]	---	1,405	---	---	---	357	142	235	31	149	23	135	---	38	466[b]	
B-16[illegible]c 3S/6W-15N2	SW. of Arlington; 1,355 feet SE. of Magnolia Ave., 1,260 feet SW. of Polk St., 25 feet NW. of Daly No. 1. Owner: Daly Water Co., Inc., well No. 2. Use: Irrigation. Casing: 15 inches. Perforated 66-86; 90-111.	710	111	11-27-53[c]	---	1,387	---	---	---	351	138	264	31	146	24	145	---	40	463[b]	
B-16[illegible]n 3S/6W-15M1	Arlington; 760 feet SE. of Magnolia Ave., 80 feet SW. of Polk St. Owner: B. F. Boughner. Use: Domestic. Casing: 6 inches. Perforated 50-59.	718	60	12- 4-53	8.1	1,060	660	0.24	0.4	312	76	101	68	77	32	95	3.3	---	323[b]	
B-174 3S/5W- 7E1	NW. of Arlington; 135 feet SW. of Van Buren St., 36 feet NW. of California Ave. Owner: W.A. Errington. Use: Irrigation. Casing: 12 inches.	763	90	Sept., 1927[a]	---	-----	---	---	---	350	150	---	---	---	---	---	---	---	---	
				5-13-32[a]	---	1,120	---	0.27	---	311	135	78	27	77	19	130	---	51	270[b]	
				10-11-37	---	1,360	---	0.30	---	297	220	80	29	103	23	141	---	47	352[b]	
				8-16-39	---	1,410	---	---	---	298	225	81	25	108	24	144	---	45	368[b]	
B-179 3S/6W-13B1	Arlington; 150 feet N. of Hole Ave., 260 feet NW. of Magnolia Ave. Owner: Citizens Domestic Water Co., Plant No. 1. Use: Irrigation.	756	---	8- 5-28[a]	---	-----	---	---	---	244	125	63	---	77	15	85	---	42	254[b]	
				12-15-32[a]	---	879	---	0.26	---	268	98	63	16	63	16	106	---	50	224[b]	
				11- 6-47	---	1,087	---	0.20	---	312	154	86	53	94	22	130	---	47	325[b]	
B-175a [illegible]-13B2	Arlington; 230 feet N. of Hole Ave., 300 feet NW. of Magnolia Ave., 80 feet N. of Plant No. 1. Owner: Citizens Domestic Water Co., Plant No. 2. Use: Irrigation. Perforated 110-162.	756	165	10- 2-31[a]	---	990	---	---	---	268	107	85	---	76	18	89	---	42	264[b]	
				11-20-31[a]	---	1,020	---	---	---	278	107	72	---	71	16	96	---	46	244[b]	
				7-22-47	---	1,298	---	0.60	---	355	169	96	44	101	25	142	---	47	354[b]	
B-180j 3S/5W- 5M1	NW. of Arlington; 45 feet NW. of California Ave., 0.25 mile SW. of Adams St. Owner: H.S. Smith. Use: Domestic and irrigation. Casing: 12 inches.	760	---	10-12-49[c]	---	1,303	---	Tr.	---	363	185	88	---	137	25	93	---	31	444[b]	CO_3 = Trace.
B-18[illegible] 3S/5W-17M1	SE. of Arlington; 650 feet SE. of Victoria Ave., 75 feet SW. of Jackson St. Owner: G. A. Starrett and Shearer. Use: Irrigation. Casing: 7 inches. Perforated 78-1[illegible].	900	115	Nov., 1918[a]	---	-----	---	---	---	216	115	63	18	47	20	83	---	48	200[b]	
				3-30-33[a]	---	701	---	0.12	---	210	76	54	11	54	26	60	---	35	241[b]	
				7-22-47	---	769	---	0.50	---	249	74	63	27	62	25	58	---	33	257[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								ARLINGTON BASIN - (continued)												
E-183a 3S/5W-17d1	SE. of Arlington; 45 feet SE. of Cleveland Ave., 600 feet SW. of Jackson St. Owner: J.L. Kellam. Use: Irrigation. Casing: 14 inches.	900	127	9-21-25[a]	---	-----	---	---	---	183	54	61	---	45	14	55	---	41	269[b]	
				2-15-26[a]	---	-----	---	---	---	238	37	33	---	35	11	68	---	53	133[b]	
				9-30-30[a]	---	-----	---	---	---	250	50	40	---	51	19	51	---	35	206[b]	
				11- 2-39[c]	---	729	542	---	---	271	48	67	---	66	23	46	---	28	259[b]	
E-188 3S/5W- 9B2	E. of Arlington; 150 feet SE. of A.T. & S.F. R.R., 60 feet SW. of Adams St. Owner unknown. Beulah well. Use: Irrigation.	845	---	2- 2-16[a]	---	-----	---	---	---	176	388	137	29	169	62	58	---	16	676[b]	
				Aug., 1918[a]	---	-----	---	---	---	227	551	114	130	145	52	254	---	49	575[b]	
				3-23-21[a]	---	-----	---	---	---	235	523	206	141	143	60	276	---	50	604[b]	
				4-27-22[a]	---	-----	---	---	---	253	532	190	110	139	55	310	---	54	574[b]	
				7-26-22[a]	---	-----	---	---	---	---	514	---	125	---	---	---	---	---	---	
				8-30-22[a]	---	-----	---	---	---	235	480	108	110	142	10	201	---	52	396[b]	
				7-15-22[a]	---	-----	---	---	---	231	582	109	---	---	---	---	---	---	---	
				7-20-22[a]	---	-----	---	---	---	245	532	153	77	143	58	263	---	49	596[b]	
				4-10-45[d]	7.7	2,210	---	0.34	0.2	361	395	178	116	147	64	226	---	44	630[b]	
				7-22-47	---	1,787	---	0.50	---	395	234	163	115	121	52	178	---	41	515[b]	
E-195a 3S/5W-16A1	S. of Riverside; 750 feet W. of Washington St., 1[illegible] feet S. of Kitchener Ave., in bottom of small arroyo between Kitchener Ave. and Huntington Ave. Owner: J. F. Pacnus. Use: Domestic and irrigation. Casing: 8 inches. Perforated 40-90.	1,040	75	1-23-31[a]	---	948	---	0.12	---	287	117	52	---	74	35	59	---	28	329[b]	
				5-12-32[a]	---	947	---	0.19	---	293	114	51	18	76	34	69	---	31	330[b]	
				10-11-37	---	1,200	---	0.24	---	309	170	63	48	101	44	78	---	28	432[b]	
				8-16-39	---	1,260	---	---	---	297	179	90	30	106	49	78	---	27	466[b]	
				10-22-46	---	1,210	---	0.20	---	323	174	121	16	119	54	95	---	28	520[b]	
				2-24-47	---	1,190	---	0.00	---	247	162	121	32	118	54	87	---	27	517[b]	
				5-22-53	---	1,320	---	0.29	---	348	149	112	96	115	54	95	---	29	510[b]	
E-198 3S/5W-[illegible]A1	SW. of Arlington; 63 feet N. of Magnolia Ave., 62 feet W. of Buchanan St. Owner: C.W. Main. Use: Irrigation. Casing: 16 inches. Perforated 170-181.	686	181	July, 1919[a]	---	-----	---	---	---	275	243	91	31	120	20	140	---	44	382[b]	
				11-24-31[a]	---	1,330	---	---	---	299	174	98	---	97	31	101	---	37	369[b]	
				10- 6-37	---	1,110	---	0.12	---	309	147	84	40	91	22	115	---	44	328[b]	
				8-16-39	---	1,200	---	---	---	304	153	92	27	94	22	121	---	45	325[b]	
				4-29-40	---	1,142	---	---	---	293	154	93	28	97	22	107	---	41	332[b]	
				10-22-46	---	1,160	---	0.10	---	312	183	114	16	108	28	127	---	42	385[b]	
				6-16-47	---	1,193	---	0.50	---	329	157	113	70	108	27	133	---	43	381[b]	
				11- 6-47	---	1,183	---	0.40	---	330	162	126	60	108	26	133	---	43	377[b]	
				5-17-51	7.9	1,240	---	0.23	---	348	156	119	58	113	27	133	---	42	393[b]	
				3-20-53	7.8	1,250	---	0.26	---	330	149	134	58	102	30	137	---	44	378[b]	
E-2[illegible]8w 3S/5W-22F1	SW. of Arlington; 150 feet SE. of P.E.R.R. on Magnolia Ave., and 0.25 mile SW. of Buchanan St. Owner: G.S. Dunlap, well No. 2. Use: Irrigation. Casing: 20 inches.	683	---	7-10-47[d]	7.7	1,220	---	0.24	0.6	297	153	100	50	104	21	120	---	43	346[b]	
E-304a 3S/5W-24F1	SW. of Arlington; 190 feet SE. of Arizona Ave., 77 feet SW. of Taylor St. Owner: F.W. Knard. Use: Domestic. Casing: 6 inches.	780	60	Oct., 1918[a]	---	-----	---	---	---	268	123	106	13	62	27	96	---	44	266[b]	
				11-24-31[a]	---	1,300	---	---	---	308	92	134	---	66	28	111	---	46	280[b]	
				7-22-47	---	1,370	---	0.40	---	364	92	171	221	106	52	139	---	39	478[b]	
				11- 6-47	---	1,234	---	0.30	---	360	88	169	213	106	54	118	---	35	487[b]	
				5-18-51	7.7	1,270	---	0.13	---	354	74	161	168	111	48	116	---	35	475[b]	
				3-20-53	7.8	1,330	---	0.21	---	336	92	154	180	123	48	83	---	26	505[b]	
E-309 3S/5W-1[illegible]	S. of Arlington; 120 feet N. of Victoria Ave., 80 feet NE. of John St., produced. Owner: T. G. Thursby. Use: Irrigation and domestic. Casing: 15 inches.	840	60	Oct., 1926[a]	---	-----	---	---	---	250	142	107	---	94	47	45	---	19	428[b]	
				7-22-47	---	388	---	1.10	---	154	22	28	3	27	3	46	---	56	80[b]	
				5-18-51	7.9	360	---	0.10	---	153	21	31	2	27	4	50	---	56	84[b]	
[illegible]-339 3[illegible]/4W-19A1	Woodcrest; 100 feet W. of Wood Road, 0.75 mile N. of Iris Ave. Owner: August Johnson. Use: Domestic and irrigation.	1,585	42	5-13-32[a]	---	1,310	---	0.15	---	137	290	31	35	92	48	82	---	29	427[b]	
				10-19-37	---	992	---	0.16	---	142	195	30	69	66	35	73	---	34	309[b]	
				10-22-46	---	890	---	0.20	---	158	168	39	20	60	32	85	---	39	281[b]	
E-3[illegible]a 3[illegible]/4W-19F1	Woodcrest; 200 feet N. of Iris Ave., 300 feet W. of Wood Road. Owner: J.I. Van Zandt. Use: Domestic and irrigation.	1,630	74	5-12-32[a]	---	449	---	0.14	---	110	55	14	18	27	14	38	---	40	125[b]	
				7-22-47	---	597	---	1.30	---	132	88	21	27	39	19	46	---	36	176[b]	
				3-20-53	8.1	710	---	0.14	---	140	117	27	25	52	25	53	---	32	232[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Local and state well number	Location and description	Elevation of ground surface USGS datum	Total depth of well in feet	Date sampled	pH	Conductivity ($K \times 10^6$ at 25° C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulfate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							BEAUMONT BASIN													
E-146d [illegible]/1W-1[illegible]J1	N. of Beaumont; 2.6 miles N. along Oak Glen Rd. from Orchard St., 150 feet E. of Edgar Creek; 1,700 feet N. and 200 feet W. of SE. corner of Sec. 10, T. 2 [illegible], R. 1 W., [illegible] M. Owner: Beaumont Irrigation District, well No. 6 (Old 19). Use: Irrigation. Casing: 16 inches. Perforated 40-255.	3,060	270	7-20-32[a] 10-18-37 12- 1-48	--- --- ---	396 418 380	--- --- ---	0.02 0.10 0.00	--- --- ---	217 226 232	7 9 9	22 26 33	2 4 4	46 49 53	16 16 18	18 18 18	--- --- ---	18 17 16	181[b] 188[b] 206[b]	
[illegible] [illegible]/2W-2[illegible]M1	S. of Yucaipa; 1,120 feet SW. of U.S. Highway No. 70/99, 670 feet SE. of Singleton Rd., produced, 915 feet W. of [illegible] Owner: Moreno Mutual Irrigation Co., well No. 5. Use: Irrigation. Casing: 16 inches. Gravel [illegible].	2,240	286	7-20-32[a] 10-18-37 12-14-48 5-18-51 7-14-53	--- --- 8.8 7.7 7.8	412 444 230 400 420	--- --- --- --- ---	0.02 0.14 0.00 0.00 0.01	--- --- --- --- ---	217 236 108 226 220	16 24 7 14 18	12 12 14 14 5	6 6 4 6 6	39 39 10 37 36	15 17 3 15 17	30 34 44 49 32	--- --- --- --- ---	28 31 71 42 30	164[b] 168[b] 37[b] 153[b] 160[b]	CO_3 = 17 ppm.
[illegible] [illegible]/2W-[illegible]	S. of Yucaipa; 400 feet SW. of U.S. Highway No. 70/99, 0.47 mile SE. of Singleton Rd. Owner: Moreno Mutual Irrigation Co., well No. [illegible]. Use: Irrigation. Casing: 16 inches. Perforated 131-221; 290-360. San Bernardino County Flood Control District (S.B.Co.F.C.D.) sample Point No. 406.	2,257	387	7-[illegible]-32[a] 8- 9-49[c]	--- 9.2	359 242	--- 152	0.01 0.03	--- 0.3	201 66	9 13	12 13	4 3	38 11	13 1	24 45	--- ---	26 77	143[b] 32	CO_3 = 24 ppm.
E-253p 2S/2W-25D2	NW. of Beaumont; 1,200 feet SW. of U.S. Highway No. 70/99, 900 feet SE. of Singleton Rd. produced, 700 feet S. and 400 feet E. of NW. corner Sec. 25, T. 2 S., R. 2 W., S.B.B. & M. Owner: Moreno Mutual Irrigation Co., well No. 7. Use: Irrigation.	2,240	---	12-14-48 8-28-52	8.1 8.4	361 420	--- ---	0.00 0.02	--- ---	228 232	16 14	11 12	9 9	38 34	17 14	31 29	--- ---	29 30	1[illegible][b] 142[b]	
[illegible] 2S/2W-25D3	NW. of Beaumont; 350 feet SW. of U.S. Highway No. 70/99, 1,100 feet SE. of Singleton Rd. produced, 1,150 feet E. and 300 feet S. of NW. corner Sec. 25, T. 2 S., R. 2 W., S.B.B. & M. Owner: Moreno Mutual Irrigation Co., well No. 8. Use: Irrigation.	2,[illegible]	---	12-14-48 5-18-51 8-28-52	8.4 8.5 8.5	213 260 260	--- --- ---	0.02 0.04 0.03	--- --- ---	113 122 122	9 7 4	16 12 13	6 4 4	10 6 4	2 1 1	40 51 47	--- --- ---	72 84 88	3[illegible][b] 19[b] 14[b]	
[illegible] 2S/1W-19B1	S. of Yucaipa; 100 feet S. and 1,650 feet W. of NE. corner of Sec. 19, T. 2 S., R. 1 W., S.B.B. & M. Owner: Frank Roberts. Use: Domestic. Casing: 6 inches. Perforated [illegible]. S.B.Co. F.C.D. sample point No. 41[illegible].	2,[illegible]70	150	8-23-49[e]	7.2	456	261	---	0.2	246	25	13	3	40	23	25	---	58	1[illegible]	
E-236 [illegible]/1W-[illegible]	NW. of Beaumont; 50 feet N. of Woodland Ave., 1,500 feet E. of U.S. Highway No. 99. Owner: C. L. Covington. Use: Irrigation. Casing: 10 inches.	2,348	220	7-20-32[a] 7- 3-53	--- 8.0	374 420	--- ---	Tr. 0.01	--- ---	204 214	13 25	8 1	6 7	39 36	17 18	20 25	--- ---	20 24	168[b] 164[b]	
[illegible] [illegible]/1W-[illegible]	NW. of Beaumont; 400 feet N. of Vineland St., 400 feet W. of W. end of Vineland St., on E. line of Union Ave. produced. Owner: J. V. Hannon. Use: Irrigation. Casing: 16 inches.	2,717	200	7-21-32[a] 7- 3-53	--- 8.2	422 420	--- ---	0.02 0.00	--- ---	204 198	25 25	13 7	6 8	32 30	20 18	33 35	--- ---	31 34	162[b] 149[b]	
[illegible] [illegible]/1W-[illegible]	NW. of Beaumont; 800 feet N. of W. end of Vineland St., 500 feet S. and 700 feet W. of NE. corner Sec. 23, T. 2 S., R. 1 W., S.B.B. & M. Owner: J. & E. Standing. Use: Domestic.	2,760	---	7- 3-53	8.2	470	---	0.04	---	232	27	10	7	36	19	41	---	35	168[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Name and state well number	Location and description	Elevation of ground surface, U.S.G.S datum	Total depth of well, in feet	Date sampled	pH	Conductivity (ECx10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								BEAUMONT BASIN - (continued)												
E-40u 2S/1W-29B1	NW. of Beaumont; 1.7 miles E. of U.S. Highway No. 70/99, 2,350 feet N. of Woodland Ave., 250 feet S. and 125 feet E. of N¼ corner Sec. 29, T. 2 S., R. 1 W., S.B.B. & M. Owner: Eugene Baum. Use: Domestic. Casing: 8 inches.	2,675	192	1- 7-49 5-18-51 8-28-52	8.4 8.1 8.5	412 380 470	--- --- ---	0.00 0.00 0.05	--- --- ---	250 177 262	29 32 28	6 11 6	2 21 7	23 26 23	13 20 10	63 52 70	--- --- ---	55 44 61	111[b] 147[b] 99[b]	
E-240 [illegible]	W. of Beaumont; 0.6 mile W. of U.S. Highway No. 60 crossing over S.P.R.R., 250 feet N. of U.S. Highway No. 60. Owner: Frank Smith. Use: Domestic and irrigation. Casing: 16 inches. Perforated 384-388; 454-474. S.B.Co. F.C.D. sample point No. 405.	2,432	1,300	Dec., 1923[a] 7-21-32[a] 8- 3-49[e] 7- 3-53	--- --- 8.9 8.8	--- 356 399 390	--- --- 236 ---	--- 0.02 0.13 0.01	--- --- 0.2 ---	165 182 112 186	59 21 44 28	-- 6 8 2	-- 2 3 10	-- 11 9 3	-- 4 1 1	-- 74 83 82	--- --- --- ---	-- 78 87 93	--- 44[b] 28 12[b]	CO_3 = 22 ppm.
E-243j 2S/1W-21L1	N. of Beaumont; 1,800 feet N. of Orchard St., 50 feet W. of Nancy Ave. produced. Owner: A.F. McGee (Beaumont Irrigation District well No. 38). Use: Irrigation. Casing: 12 inches. Perforated 285-785.	2,852	811	7-20-32[a] 6-13-40 5-18-51 7-14-53	--- --- 7.8 7.8	539 300 480 500	--- --- --- ---	0.02 --- 0.05 0.01	--- --- --- ---	253 238 244 244	28 36 21 21	39 38 29 18	2 3 2 3	41 41 38 36	20 18 27 19	50 54 34 46	--- --- --- ---	37 40 27 37	187[b] 179[b] 206[b] 168[b]	
E-244f 2S/1W-29H1	NW. of Beaumont; 50 feet E. of Union Ave., 50 feet S. of Vineland St., 1,400 feet S. and 600 feet W. of NE. corner Sec. 29, T. 2 S., R. 1 W., S.B.B. & M. Owner: Mrs. Angart Sueltz. Use: Domestic. Casing: 8 inches.	2,690	---	12-14-48 5-18-51	8.3 7.9	403 420	--- ---	0.00 0.00	--- ---	214 220	23 25	14 13	11 7	34 34	19 17	36 55	--- ---	33 43	163[b] 155[b]	
E-246 3S/1W- 4Q1	Beaumont; 800 feet W. of Elm St., 500 feet N. of U. S. Highway No. 70/99. Owner: Three Kings Ranch. Use: Irrigation. Casing: 12 inches.	2,570	345	12- 6-49[c]	---	343	---	Tr.	---	149	20	38	--	31	8	36	---	41	111[b]	Capped on 3-5-54
E-254j 2S/1W-14N1	N. of Beaumont; 1.4 mile N. of Orchard St. along Beaumont Ave. (and Oak Glen Rd.), then 800 feet E. of Beaumont Ave. at right angles, 50 feet E. of Edgar Creek. Owner: Beaumont Irrigation District, well No. 15 (Old 30). Use: Irrigation. Casing: 16 inches. Perforated 35-60; 70-75; 90-95; 112-176; 190-195; 206-287.	3,180	308	3-28-29[a] 7-20-32[a] 12- 2-48 5-18-51	--- --- 8.2 7.9	415 404 342 430	--- --- --- ---	--- 0.01 --- ---	--- --- --- ---	214 220 201 226	11 11 9 14	10 20 31 32	-- 2 7 2	51 46 48 47	19 15 16 15	-- 20 19 38	--- --- --- ---	-- 20 18 30	206[b] 177[b] 186[b] 180[b]	
E-256a 2S/1W-25D1	NE. of Beaumont; 2,850 feet N. and 1,150 feet E. of intersection of Grand Ave. and Highland Springs Ave., 200 feet NE. of house. Owner: R. E. Agee. Use: Domestic. Casing: 20 inches.	3,050	56	10-31-40[c]	---	532	443	---	---	284	21	21	--	59	24	17	---	13	247[b]	
E-258c 3S/1W-12D1	E. of Beaumont; 900 feet E. of Highland Springs Ave., 150 feet N. of U.S. Highway No. 70/99; 1,000 feet S. and 900 feet E. of NW. corner Sec. 12 T. 3 S., R. 1 W., S.B.B. & M. Owner: C.R. Bagley. Use: Domestic. Casing: 10 inches.	2,580	390	12-14-48 5-18-51	8.2 8.0	357 320	--- ---	0.00 ---	--- ---	218 183	19 14	2 2	12 7	35 24	16 15	34 45	--- ---	32 44	154[b] 122[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (Calc.[a] at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							BEDFORD BASIN													
E-296 4S/6W- 9G1	SE. of Corona; 0.8 mile NE. of State Highway No. 71, along Temescal Rock Quarry Rd., 300 feet SE. of road, on W. edge of Temescal Wash. Owner: El Cerrito Ranch, well No. 2. Use: Irrigation. Gravel 3-50.	742	70	10- 5-31[a]	---	1,090	---	---	---	281	53	261	---	117	28	77	---	29	407[b]	
				12-18-31[a]	---	1,110	---	---	---	275	50	248	---	109	35	62	---	24	416[b]	
				10-11-37	---	1,130	---	0.32	---	253	74	213	5	116	29	82	---	30	409[b]	
				8-16-39	---	1,020	---	---	---	264	46	230	2	106	29	69	---	28	384[b]	
				10-22-46	---	840	---	0.10	---	262	51	203	2	101	30	62	---	26	375[b]	
				9-20-51	7.4	970	---	0.10	---	305	43	231	11	119	33	61	---	22	433[b]	
				12- 5-53	7.6	1,000	714	0.04	0.5	276	49	250	15	121	30	68	2	--	425[b]	
E-297a 4S/6W-16G1	SE. of Corona; 2.0 miles SE. of Compton Ave., 200 feet NE. of State Highway No. 71. Owner: Temescal Water Co. Use: Irrigation.	850	---	12-18-31[a]	---	1,110	---	---	---	262	50	262	--	107	31	74	---	29	395[b]	
				7-30-47	---	1,010	---	0.10	---	282	50	223	16	113	29	68	---	27	401[b]	
				9-21-51	8.1	1,030	---	0.01	---	299	46	275	17	126	37	59	---	22	467[b]	
E-297b	SE. of Corona; 1,400 feet N. of State Highway No. 71, seven miles SE. of Corona, 600 feet S. of Temescal Wash. Owner: Temescal Water Co., Wild Rose well. Use: Irrigation. Casing: 16 inches. Perforated 40-105.	-----	105	6- 6-51[c]	---	1,168	---	---	---	311	73	253	---	143	31	62	---	22	485[b]	
							BUNKER HILL BASIN													
D-1184a 1N/5W-10B1	NW. of San Bernardino; in NW¼ NE¼ of Sec. 10, T. 1 N., R. 5 W., S.B.B. & M. Owner: Glen Helen Ranch. S.B.Co.F.C.D. sample point No. 385.	1,800	---	7- 5-49[e]	6.5	362	227	---	Tr.	173	20	25	3	32	11	32	---	36	126	
				10- 7-49[e]	6.8	374	240	0.44	0.3	183	18	18	4	29	12	27	---	33	120	
				10- 8-49[e]	7.0	374	237	0.19	0.3	185	17	23	2	30	11	27	---	33	121	
D-1188h 1N/5W-23M1	NW. of San Bernardino; 0.24 mile N. of Ogden St., 0.35 mile W. of Gray St. Owner: Muscoy Mutual Water Co., well No. 1. Use: Domestic and irrigation. Casing: 20 inches. Perforated 60-302. S.B.Co.F.C.D. sample point No. 662.	1,493	351	9- 2-32[a]	---	473	---	0.12	---	235	7	39	1	64	15	16	---	14	222[b]	
				10-13-37	---	496	---	0.16	---	245	10	48	2	66	12	17	---	15	214[b]	
				10-31-46	---	424	---	0.04	---	238	7	46	2	70	16	17	---	14	241[b]	
				10-13-47	---	496	---	0.16	---	245	10	48	2	66	12	17	---	15	214[b]	
				10-22-51[e]	7.6	500	314	0.00	---	250	12	35	5	69	14	17	---	14	230	
E-4a 1N/4W-29E1	NW. of San Bernardino; 123 feet S. of Darby Ave., 27 feet E. of California Ave. Owner: Rigali and Vasclich. Use: Domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 773.	1,302	429	8- 9-51	7.6	466	288	0.04	---	239	8	19	12	64	15	9	---	--	221	
				2-29-52	7.5	402	272	0.00	---	239	9	21	12	63	15	11	3	--	220[b]	
				5- 9-52[e]	7.6	400	278	0.10	0.6	229	12	26	13	64	13	14	---	12	215	
				7-29-52	7.8	423	290	0.04	0.7	249	13	23	14	66	13	15	4	--	218[b]	
				8-27-52[e]	7.3	452	287	0.03	0.5	242	11	26	17	62	16	13	3	11	220	
				4- 2-53	7.9	400	---	0.02	---	244	7	23	11	62	16	16	---	14	221[b]	
				4- 7-53[e]	7.5	460	280	0.07	0.6	244	9	13	20	62	17	11	4	10	223	
				7-21-54	7.8	438	290	0.00	0.6	234	7	27	22	64	16	12	3	--	226[b]	
E-4c 1N/4W-29E3	NW. of San Bernardino; 200 feet S. of Darby Ave., 100 feet E. of California Ave. Owner: H. Eastwood. Use: Irrigation. Casing: 16 inches. Perforated 230-330. S.B.Co.F.C.D. sample point No. 105	1,302	400	12-27-44[e]	8.6	472	276	0.00	---	245	13	25	14	62	12	16	---	15	206	
				1-29-45[e]	8.3	463	303	0.00	---	249	9	28	2	66	12	17	---	15	214	
				3- 2-45[e]	8.2	496	272	0.00	---	244	8	24	14	66	13	19	---	16	221	
				3-29-45[e]	8.0	464	246	0.00	---	241	5	26	24	53	14	18	---	17	191	
				4-30-45[e]	7.7	453	224	0.00	---	247	8	24	4	65	15	16	---	14	224	
				7- 9-45[e]	7.2	461	207	0.00	---	254	10	31	9	69	14	16	---	13	232	
				9- 6-45[e]	---	---	221	0.00	---	251	6	36	11	69	10	12	---	11	212	
				11- 1-45[e]	---	---	259	0.00	---	229	11	38	14	56	16	15	---	14	204	
				5- 7-46[e]	---	---	264	0.00	---	237	8	35	0	65	9	16	---	15	198	
				9-13-46[e]	---	---	280	0.44	---	257	10	34	9	53	25	15	---	12	235	
				1-20-47[e]	7.5	371	228	0.00	---	177	8	38	30	46	16	15	---	15	182	Pump just started.
				1-20-47[e]	7.6	467	312	0.29	---	239	9	38	23	68	19	15	12	16	245	After 1 minute.
				1-20-47[e]	7.6	477	326	1.99	---	240	9	36	23	68	18	14	11	16	246	After 6 minutes.
				1-20-47[e]	7.6	482	293	0.24	---	240	9	36	32	68	18	16	12	17	244	After 11 minutes.
				1-20-47[e]	7.6	470	301	0.08	---	240	8	37	33	66	20	16	12	17	245	After 21 minutes.
				1-20-47[e]	7.6	478	287	0.00	---	239	8	34	41	66	19	15	12	16	243	After 36 minutes.
				9-28-48[e]	7.8	459	250	0.10	0.3	245	10	34	8	75	16	14	---	11	252	
				2-15-49[e]	7.2	459	271	0.19	0.4	242	10	31	9	71	13	16	---	13	232	
				9-13-49[e]	7.5	469	293	---	0.4	251	10	44	0	64	17	10	---	9	232	
				6-27-50[e]	7.6	463	293	0.27	0.3	248	9	20	13	65	15	12	---	11	222	
				12-18-50[e]	7.4	463	302	0.06	0.3	249	4	30	10	63	15	14	---	12	217	
				4- 9-51[e]	7.7	459	282	0.07	0.4	246	10	23	10	64	14	6	---	6	217	Pump removed, 8-27-52.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
[illegible]	NW. of San Bernardino; 720 feet E. of California Ave., 1,716 feet N. of Darby Ave. Owner: Paper Board Co. (Mr. Olaf Olsen). Use: Test well. Casing: 16 inches. Perforated 227-431. S.B.Co.F.C.D. sample point No. 663.	1,330	562	10- 1-51[e]	7.4	550	348	0.00	0.2	254	11	47	12	80	14	14	--	10	258	
				10-29-51	7.9	548	348	0.05	---	254	10	53	11	59	27	13	--	--	258	
				10-30-51[e]	7.4	560	364	0.00	---	256	11	62	12	80	15	15	--	11	262	
				11- 1-51	7.6	558	353	0.04	---	254	9	60	12	52	31	14	--	--	257	Abandoned, 3-22-52.
E-4e 1N/4W-[illegible]	NW. of San Bernardino; 348 feet E. of California Ave. produced, 2,790 feet N. of Darby St. Owner: State of California, Division of Water Resources, Culligan test well No. 1. Use: Test well. Casing: 6 inches. Perforated 265-[illegible]. S.B.Co.F.C.D. sample point No. 643.	1,360	294	7-16-51	7.7	536	332	0.00	0.2	254	9	43	18	63	14	29	--	--	216	
				7-17-51[e]	7.6	535	328	0.00	0.2	242	11	44	18	63	13	23	--	19	210	
				9-24-51	7.3	500	327	0.10	---	239	11	19	18	71	14	10	--	--	234	
				10- 2-51	7.5	490	319	0.13	---	244	10	23	17	70	15	12	--	--	237	
E-4f 1N/4W-28D1	NW. of San Bernardino; 670 feet E. of California Ave., 1,165 feet N. of Darby St. Owner: State of California, Division of Water Resources, Culligan test well No. 2. Use: Test well. Casing: 8 inches. Perforated 238-260. S.B.Co.F.C.D. sample point No. 641.	1,318	262	8-29-51	7.3	1,768	1,400	1.00	---	356	21	693	17	281	55	47	--	--	936	
				10-18-51	7.1	1,819	1,735	1.15	---	412	24	732	19	302	63	57	--	--	1,016	
				10-22-51	7.3	1,824	1,570	1.08	---	386	24	746	19	318	60	47	--	--	1,042	
				11-28-51	7.1	1,964	1,795	1.14	---	377	27	792	20	315	68	69	--	--	1,066	
				2-26-52	7.1	1,664	1,559	0.93	0.4	358	16	753	22	280	58	98	8	--	938[b]	
				4- 3-52	7.2	1,695	1,464	0.87	0.5	351	19	686	19	263	47	104	9	--	849	
				7-29-52	7.3	1,012	840	0.42	0.4	342	15	336	23	148	24	95	7	--	468	
				10- 1-52	7.2	1,111	805	0.49	0.2	347	17	260	22	131	27	80	7	--	439[b]	
				2- 4-53	7.2	1,320	-----	0.86	0.3	376	19	356	18	170	30	80	8	--	548[b]	
E-5e 1N/4W-[illegible]	W. of San Bernardino; 92 feet S. of Highlands Ave., 681 feet W. of California Ave., E. well of two, 150 feet apart. Owner: Mt. Vernon Water Co. Use: Irrigation. Casing: 20 inches. Perforated 228-308; 346-374; 382-422; 462-542. S.B.Co.F.C.D. sample point No. 106.	1,259	598	9- 2-32[a]	---	456	-----	0.08	---	238	7	36	1	62	14	16	--	14	212[b]	
				10-13-37	---	471	-----	0.12	---	244	12	23	2	65	10	17	--	15	203[b]	
				12-27-44[e]	8.9	397	238	0.00	---	188	10	43	7	44	12	25	--	25	160	
				1-30-45[e]	8.1	361	223	0.00	---	177	9	45	4	40	15	23	--	23	162	
				4-25-45[e]	7.6	461	203	0.00	---	248	9	33	11	65	14	29	--	22	219	
				7- 9-45[e]	8.9	474	237	0.00	---	256	9	33	10	69	13	16	--	13	226	
				9- 6-45[e]	7.5	469	213	0.00	---	255	7	39	17	69	9	17	--	15	210	
				11- 1-45[e]	7.6	493	204	0.00	---	251	9	37	16	69	17	12	--	10	243	
				5- 6-46[e]	7.2	487	191	0.00	---	246	11	37	0	59	12	19	--	18	196	
				6-12-46[e]	7.3	490	220	0.00	---	264	11	37	0	72	10	15	7	16	222	
				8-29-46[e]	6.8	539	244	0.00	---	244	21	44	0	40	18	18	4	20	175	
				9-20-46[c]	---	527	-----	0.02	---	235	11	69	--	81	8	20	--	16	284[b]	
				10-31-46	---	420	-----	0.10	---	247	7	45	1	67	16	17	--	13	238[b]	
				3-27-47[e]	7.3	485	309	0.00	---	253	9	44	11	68	16	15	--	13	237	
				6- 2-47[e]	7.2	441	299	0.00	---	254	10	46	31	69	15	19	--	15	235	
				8-28-47[e]	7.0	454	264	0.00	---	250	14	48	9	62	8	21	14	25	189	
				6- 8-48[e]	7.0	482	305	0.00	0.4	268	10	41	3	72	16	7	--	6	243	
				9-28-48[e]	7.8	492	316	0.45	0.5	252	9	47	5	75	21	19	--	13	273	
				9-13-49[e]	7.5	481	298	----	0.3	249	9	49	0	68	17	14	--	11	240	
				4- 9-51[e]	7.6	487	309	0.04	0.4	244	10	34	8	66	15	9	--	8	226	
				8- 9-51	7.7	493	310	0.00	---	244	9	32	4	67	16	14	--	--	234	
				8-27-52[e]	7.3	485	309	0.20	0.5	246	11	30	5	66	18	16	4	13	237	
				4- 2-53	8.0	440	-----	0.05	---	250	7	58	3	65	18	18	--	14	236[b]	
				4- 7-53[e]	7.5	508	301	0.08	0.6	251	11	23	5	63	19	10	4	9	233	
E-1e 1N/4W-32B1	NW. of San Bernardino; 55 feet E. of Mountain St., [illegible] feet S. of Goodlet St. Owner: R.A. Smith. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 107.	1,212	133	12-27-44[e]	8.5	454	253	0.00	---	282	14	1	16	52	18	19	--	17	203	
				1-29-45[e]	8.4	430	193	0.00	---	272	13	2	11	50	18	20	--	18	200	
				3- 2-45[e]	8.4	431	176	0.00	---	271	9	2	4	50	16	22	--	20	183	
				3-29-45[e]	8.2	423	172	0.00	---	266	9	1	26	33	15	20	--	23	145	
				4-30-45[e]	7.8	424	200	0.00	---	265	9	Tr.	1	51	17	21	--	19	198	
				7- 9-45[e]	7.5	416	152	0.00	---	268	9	1	9	52	9	14	--	16	169	
				9- 6-45[e]	7.7	411	208	0.00	---	277	10	Tr.	3	51	15	16	--	15	188	
				11- 1-45[e]	7.9	428	200	0.00	---	251	13	1	16	50	17	11	--	11	195	
				5- 6-46	8.0	-----	-----	----	0.1	198	6	4	Tr.	37	15	10	--	12	154	
				6-12-46[e]	7.5	332	173	0.00	---	214	8	5	14	37	12	16	9	24	128	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-11f 1N/4W-25P2	NW. of San Bernardino; 819 feet N. of Highland Ave., 1,200 feet E. of California Ave. Owner: Coy Ranch. Use: Irrigation. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 104.	1,248	410	12-27-44[c]	8.4	463	257	0.00	---	207	9	30	19	64	12	12	--	11	211	
				1-23-45[c]	8.3	446	295	0.00	---	239	5	28	4	64	14	15	--	13	218	
				3- 2-45[c]	7.6	472	267	0.00	---	242	6	27	2	64	13	18	--	16	214	
				4-30-45[c]	7.6	477	293	0.00	---	242	9	29	5	69	14	17	--	14	229	
				7- 9-45[c]	7.0	466	274	0.00	---	254	8	31	6	69	11	14	--	12	218	
				11- 1-45[c]	8.2	335	176	0.00	---	105	8	34	15	42	14	18	--	19	163	CO_3 = 33 ppm.
				5- 6-46[c]	7.5	473	244	0.00	---	245	7	38	4	66	13	18	--	15	217	
				8-29-46[c]	7.0	474	265	0.00	---	244	9	38	0	36	19	15	6	19	169	
				8-28-47[c]	6.7	420	---	0.00	---	245	12	36	36	56	17	20	--	17	211	
				1- 8-48[c]	7.3	474	268	0.00	0.3	249	11	37	28	63	16	18	--	15	224	
				6-28-48[c]	7.0	444	220	0.07	0.8	254	9	37	5	77	13	11	--	9	245	
				8- 9-51	7.7	480	292	0.00	---	242	9	25	6	66	15	14	--	--	226	
				5-18-53[c]	7.5	470	291	0.04	0.5	246	9	22	5	63	16	13	3	11	223	
E-12j 1N/4W-22N3	NW. of San Bernardino; 1,673 feet W. of Muscott St., 105 feet N. of 19th St. Owner: City of San Bernardino, 19th St. well. Use: Municipal. Casing: 20 inches.	1,232	685	12-14-51[c]	---	443	---	0.08	0.7	226	12	52	--	58	14	24	--	21	202[b]	
				2- 8-52[c]	---	502	---	Tr.	0.6	232	11	46	--	66	16	13	--	11	231[b]	CO_3 = 4 ppm.
E-14e 1S/4W- 5E1	E. of San Bernardino; 56 feet S. of 9th St., 300 feet E. of Pennsylvania Ave. Owner: Karst. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 577.	1,162	186	1-30-51[c]	7.2	503	334	0.00	---	242	8	37	30	75	9	11	--	10	225	
				11- 5-53	8.0	474	307	0.02	0.2	224	9	36	31	77	11	12	3	--	241[b]	
E-15a 1S/4W- 8F6	W. of San Bernardino; 2,720 feet W. of Mt. Vernon Ave., 220 feet N. of Rialto Ave. Owner: Terrace Water Co., well No. 1. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 588.	1,095	446	Aug., 1919[a]	---	---	---	----	---	180	8	45	0	49	10	15	--	18	188[b]	
				9-21-32[a]	---	413	---	0.02	---	217	5	31	2	61	12	10	--	9	193[b]	
				3-14-51[c]	7.6	452	296	0.00	0.1	232	7	42	5	70	12	12	--	10	222	
E-15t 1S/4W- 8F10	N. of Colton; 200 feet W. of Bernardo Ave., on S. property line of Rialto Ave. Owner: City of Colton, well No. 16. Use: Municipal. Casing: 16 inches. Perforated 326-356; 418-430; 446-490; 634-736. S.B.Co.F.C.D. sample point No. 321.	1,097	818	6-14-48[c]	6.8	379	246	0.57	0.3	230	8	32	1	59	11	8	--	8	190	
				3-14-51[c]	7.6	397	265	0.00	0.0	220	5	36	3	56	12	12	--	13	187	
E-16h 1N/4W-25L1	NE. of San Bernardino; 0.1 mile W. of Muscott Ave., 0.25 mile N. of Highland Ave. Owner: Sharpshire. Use: Irrigation. S.B.Co.F.C.D. sample point No. 103.	1,240	603	12-27-44[c]	8.8	446	249	0.00	---	227	9	26	20	61	12	10	--	10	200	
				1-30-45[c]	8.0	445	213	0.00	---	229	8	28	1	61	13	21	--	19	205	
				3- 2-45[c]	8.1	461	200	0.00	---	239	6	26	2	62	12	14	--	13	204	
				3-29-45[c]	7.6	445	245	0.04	---	237	5	23	43	56	11	17	--	17	183	
				4-30-45[c]	7.6	438	243	0.00	---	239	7	20	2	65	13	16	--	14	217	
				7- 9-45[c]	8.0	461	124	0.00	---	254	10	30	5	68	14	16	--	14	228	
				9- 6-45[c]	7.6	461	219	0.00	---	177	10	28	21	69	11	13	--	11	217	
				11- 1-45[c]	8.4	344	240	0.00	---	200	10	34	0	48	12	15	--	17	152	
				5- 6-46	7.5	---	---	----	1.3	268	7	41	1	62	18	20	--	16	228	
				6-12-46[c]	7.3	470	187	1.04	---	224	10	38	39	70	9	15	--	14	212	
				8- 8-46[c]	8.0	525	290	0.02	---	224	10	38	39	66	18	14	--	12	237	
				8-29-46[c]	7.1	510	271	0.00	---	241	10	41	19	42	18	16	8	20	178	
				3-27-47[c]	7.4	472	278	0.00	---	249	8	40	11	70	14	14	--	11	222	
				6- 2-47[c]	7.6	418	272	0.00	---	247	7	35	22	66	15	18	--	15	225	
				8-28-47[c]	6.7	454	267	0.84	0.2	250	13	38	41	68	17	16	--	12	240	
				1- 8-48[c]	7.3	432	242	0.18	0.4	254	11	34	17	61	14	12	--	11	210	
				6-28-48[c]	7.2	489	210	0.22	1.0	244	9	34	1	69	14	11	--	10	231	
				9-28-48[c]	7.7	479	362	0.26	0.5	247	10	40	8	74	16	15	—	12	251	
				6-27-50[c]	7.6	457	281	0.12	0.4	246	9	30	13	64	13	13	--	12	213	
				12-18-50[c]	7.4	447	289	0.06	0.3	232	1	32	6	60	14	14	--	13	210	
				4- 9-51[c]	7.7	471	304	0.02	0.4	246	9	29	6	65	21	8	--	7	249	
				8- 9-51	7.7	452	277	0.04	---	237	9	24	4	61	15	6	--	--	214	
				8-27-52[c]	7.5	463	325	0.03	0.4	246	12	33	12	64	17	15	4	12	229	
				5-18-53[c]	7.7	440	270	0.10	0.6	244	8	21	2	43	24	14	3	13	208	
				7-21-54	7.9	420	273	0.00	0.6	242	5	31	6	64	14	14	3	--	217[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-17a 1N/4W-[illegible]	San Bernardino; 219 feet N. of 14th St., 48 feet E. of Mt. Vernon Ave. Owner: [illegible]. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. [illegible].	1,161	243	6- 8-48[e]	7.0	468	315	0.00	0.7	256	9	32	Tr.	70	15	7	--	7	325	
				9-28-48[e]	7.7	462	276	0.44	0.7	246	9	40	23	71	18	14	--	11	255	
				2-16-49[e]	7.2	464	271	0.17	0.4	246	10	36	41	69	13	17	--	14	224	
				3-16-49[e]	7.0	486	286	----	0.5	249	9	40	1	61	15	15	--	13	216	
				12-19-50[e]	7.3	468	300	0.00	0.3	246	2	36	6	60	15	14	--	--	207[b]	
				4- 9-51[e]	7.6	483	289	0.00	0.4	244	7	26	7	64	14	7	--	7	218	
				10-22-51	7.7	480	292	0.00	0.0	250	12	24	6	67	13	17	--	14	222	
E-[illegible] 1N/4W-[illegible]	N. of San Bernardino; 100 feet S. of 26th St., 100 feet W. of I St. Owner: [illegible]. Use: Domestic. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 108.	1,180	115	12-27-44[e]	8.0	274	122	0.00	0.0	144	20	Tr.	21	22	7	59	--	59	84	
				1-23-45[e]	7.8	266	135	0.00	---	145	18	4	12	22	8	23	--	36	87	
				3- 2-45[e]	7.4	267	148	0.00	---	157	16	1	43	23	7	20	--	32	87	
				3-27-45[e]	7.5	272	178	0.00	---	102	15	1	33	22	7	17	--	30	84	
				4-30-45[e]	7.4	271	157	0.00	---	142	16	Tr.	7	28	7	22	--	33	107	
				7- [illegible]-45[e]	7.3	260	230	0.00	---	151	17	1	9	25	9	18	--	27	101	
				9- 6-45[e]	5.9	260	147	0.00	---	130	17	Tr.	16	27	6	16	--	27	95	
				11- 1-45[e]	7.4	293	---	0.00	---	143	20	Tr.	19	23	10	14	--	24	96	
				5- 6-46[e]	7.3	305	---	0.00	---	158	16	Tr.	19	35	9	21	--	27	124	
				1-12-46[e]	6.9	292	---	0.00	---	157	18	3	19	28	12	17	--	23	47	
				8- 8-46[e]	7.4	312	171	0.11	---	143	19	0	29	28	12	15	--	21	119	Well dry, 12-18-50.
E-[illegible] 1S/4W- 9B1	San Bernardino; 250 feet N. of 3rd St., 160 feet W. of I St. Owner: Union Ice Co., well No. 1. Use: Domestic. Casing: 16 inches. Perforated 130-160; 180-[illegible]; [illegible]; 320-376. S.B.Co.F.C.D. sample point No. [illegible].	1,069	384	Aug., 1927[a]	---	---	---	----	---	250	7	90	--	48	13	60	--	43	366[b]	
				9- 1-32[a]	---	462	---	0.05	---	247	9	13	2	63	14	18	--	15	252[b]	
				12-12-50[c]	7.3	457	---	0.07	---	244	12	49	--	71	13	17	--	14	248[b]	
				3-14-51[e]	7.6	516	290	0.00	---	259	8	34	7	64	15	17	--	15	220	
E-[illegible] 1N/4W-[illegible]	San Bernardino; 128 feet N. of 19th St., 240 feet W. of D St. Owner: W.D. Anderson. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 315.	1,164	196	6- 8-48[e]	7.0	479	318	0.00	0.3	242	11	25	30	69	14	3	--	3	227	
				9-28-48[e]	7.5	495	358	0.08	0.3	235	10	39	29	75	19	13	--	10	261	
				2-16-49[e]	7.4	512	328	0.00	Tr.	239	11	46	30	80	15	13	--	10	262	
				3-16-49[e]	8.0	542	362	----	0.2	239	13	59	17	77	15	15	--	12	254	
				12-19-50[e]	7.6	419	292	0.16	0.4	163	8	54	9	40	11	28	--	30	215[b]	
E-26j 1N/4W-27M1	N. of San Bernardino; 270 feet E. of D St., 257 feet N. of 25th St. Owner: City of San Bernardino, North E St. well. Use: Municipal. Casing: 20 inches. Perforated 460-756.	1,16[illegible]	785	6-22-50[c]	---	421	---	0.02	0.6	226	5	22	--	62	10	9	--	9	196[b]	
E-29 1S/4W-10F1	San Bernardino; [illegible] feet E. of D St., [illegible] pump house in yard of [illegible]. Owner: City of San Bernardino, Hanford well No. 1. Use: Municipal. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 581.	1,[illegible]	736	[illegible]-31[a]	---	---	---	----	---	192	7	27	--	--	--	--	--	--	---	
				12- [illegible]-46[c]	---	356	---	0.04	---	192	7	43	--	49	11	20	--	21	167[b]	
				12-15-47	---	[illegible]	---	0.20	---	195	6	13	Tr.	45	9	15	--	17	152[b]	
				3-14-51[e]	7.[illegible]	377	205	----	---	190	8	17	5	42	10	17	--	21	144	
				3-26-53[f]	[illegible]	374	211	0.25	0.8	182	22	14	7	47	6	25	3	--	130[b]	
E-29a 1N/4W-[illegible]	San Bernardino; 60 feet E. of D St., 170 feet S. of 2nd St., in yard of Water Dept. Capped and flows to covered concrete reservoir at well No. 1. Owner: City of San Bernardino, Hanford well No. 2. Use: Municipal. S.B.Co.F.C.D. sample point No. 590.	1,028	1,200	1-23-31[a]	---	311	---	0.17	---	116	14	22	--	19	3	36	--	57	64[b]	
				9- 1-32[a]	---	293	---	0.22	---	113	16	24	0	14	4	48	--	68	51[b]	
				12- 5-46[c]	---	282	---	0.24	---	140	14	28	--	19	4	23	--	30	130[b]	
				12-15-47	---	214	---	0.30	---	116	9	13	--	10	2	46	--	74	33[b]	CO_3 = 8 ppm.
				3-14-51[e]	7.8	298	191	0.05	0.3	166	5	15	7	26	6	31	--	43	90	
E-[illegible] 1N/4W-[illegible]	San Bernardino; 53 feet S. of S. property line of 17th St., 48 feet W. of W. property line of Sierra Way. Owner: City of San Bernardino, 17th St. well. Use: Municipal. Casing: 20 inches. Perforated 454-[illegible]; 570-670.	1,142	700	3-23-48[c]	---	377	---	0.13	---	216	9	24	--	44	13	23	--	24	163[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-31f 1N/4W-34R3	San Bernardino; 31 feet N. of N. property line of 16th St., 131 feet W. of W. property line of Sierra Way. Owner: City of San Bernardino, 16th St. well. Use: Municipal. Casing: 20 inches. Perforated 490-680.	1,136	708	1-25-50[c]	---	367	---	Tr.	0.5	192	5	28	--	57	3	22	--	--	154[b]	CO_3 = 6 ppm.
E-32r 1S/4W- 2N6	San Bernardino; 100 feet E. of Waterman Ave., 40 feet N. of 5th St. S.B. Co.F.C.D. sample point No. 204.	1,042	---	1-28-47[e]	7.8	415	254	0.48	---	196	11	29	23	57	11	15	--	15	189	
				11-27-51[e]	8.1	480	310	0.10	---	231	16	30	22	63	13	18	--	16	209	
E-33d 1S/4W-10P6	San Bernardino; SE. corner of 1st and C Sts. Owner: Hanford Foundary. Use: Industrial. S.B.Co.F.C.D. sample point No. 597.	1,013	---	3-15-51[e]	7.7	443	280	0.00	---	246	6	33	5	61	15	14	--	13	212	
E-33r 1S/4W- 2N4	San Bernardino; 650 feet E. of Waterman Ave., 60 feet N. of Monterey St. Owner: R.G. Stankey. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 203.	1,037	199	1-28-47[e]	8.0	394	232	0.50	---	212	9	15	14	58	13	10	--	10	200	
				11-27-51[e]	7.7	420	261	0.00	0.2	221	13	17	5	59	11	9	--	10	194	
				2-23-53[e]	7.6	443	272	0.15	0.5	183	13	34	6	57	12	15	3	14	157	
				11- 3-53	8.1	446	285	0.08	0.3	212	12	39	12	63	12	18	3	--	207[b]	
E-33p 1S/4W- 3Q3	San Bernardino; 42 feet S. of 6th St., 75 feet E. of Sierra Way. Owner: San Bernardino County [illegible] District. Use: [illegible]. Casing: [illegible]. S.B.Co.F.C.D. sample point No. 220.	1,043	---	[illegible]-24-47[e]	7.2	278	209	0.00	---	190	10	24	22	48	12	24	--	23	171	Artesian well.
E-35w 1N/4W-27A1	San Bernardino; 300 feet S. of Marshall Blvd., 270 feet W. of Waterman Ave. Owner: City of San Bernardino, Waterman Ave. well. Use: Municipal. Casing: 20 inches. Perforated 258-267; 295-610.	1,244	662	11-25-49[c]	---	400	---	Tr.	---	223	11	28	--	58	5	28	--	27	165[b]	
E-35x 1N/4W-26A1	Del Rosa; 100 feet E. of Harrison Ave., 35 feet N. of Lynwood Ave. Owner: Pioneer Gardens Water Co. S.B.Co.F.C.D. sample point No. 896.	1,244	---	2-23-53[e]	7.4	556	358	0.41	1.1	160	24	110	4	40	16	54	2	41	162	
E-36 1N/4W-35C1	NE. of San Bernardino; 679 feet S. of Highland Ave., 1,676 feet E. of Waterman Ave. Owner: City of San Bernardino, Perris Hill No. 2 well. Use: Domestic. Casing: 15 inches.	1,159	433	6-1[illegible]-46[c]	---	391	---	0.11	---	153	18	64	--	39	7	41	--	42	127[b]	
E-36a 1N/4W-35C2	NE. of San Bernardino; 160 feet W. of Valencia Ave., 298 feet S. of Highland Ave. Owner: City of San Bernardino, Perris Hill well No. 4. Use: Municipal. Casing: [illegible] inches. Perforated [illegible].	1,165	265	9- 1-32[a]	---	391	---	0.20	---	137	12	56	10	35	9	34	--	37	125[b]	
				7-22-46[c]	---	305	---	0.27	---	152	14	52	--	38	11	27	--	29	140[b]	
				6- 9-47	---	339	---	0.20	---	139	8	43	6	32	9	32	--	37	117[b]	
				12-15-47	---	378	---	0.30	---	195	7	52	Tr.	52	14	21	--	20	187[b]	
				9-23-48[c]	---	345	---	----	---	137	16	41	--	40	10	16	--	19	141[b]	
				7-10-51	7.8	370	---	0.13	---	146	14	55	4	36	5	36	--	41	110[b]	
				4- 2-53	8.0	400	---	0.18	---	159	14	65	9	44	12	35	--	32	159[b]	
E-[illegible] 1N/4W-[illegible]	NE. of San Bernardino; 1,380 feet E. of Waterman Ave., 119 feet N. of Highland Ave. Owner: City of San Bernardino, Perris Hill well No. 5. Use: Municipal. Casing: 20 inches. Perforated [illegible]; [illegible]; [illegible].	1,174	374	5-12-51[c]	---	507	---	0.26	0.9	156	19	96	--	48	12	39	--	33	169[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and [illegible] numbers	Location and description	Elevation of ground surface USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
[illegible] 1N/4W- [illegible]	San Bernardino; 50 feet S. of 6th St., 0.3 mile E. of Waterman Ave. Owner: Riverside Water Company, Garner Tract well No. 5.	1,046	-----	11-27-53[c]	---	344	---	----	---	109	18	42	Tr.	45	1	25	--	32	116[b]	CO_3 = 8 ppm.
[illegible] 1N/4W- [illegible]	San Bernardino; 219 feet E. of Waterman Ave., 135 feet N. of Gilbert St. Owner: City of San Bernardino, Gilbert St. well.	1,142	-----	10-[illegible]-53[c]	---	531	---	0.14	0.6	217	16	88	--	61	12	41	--	31	201[b]	
[illegible] 1N/4W- [illegible]	San Bernardino; 977 feet N. of 6th St., 1,685 feet W. of Tippecanoe Ave. Owner: City of San Bernardino, Antil well No. 5. Use: Municipal. Casing: 16 inches.	1,058	1,410	2-22-29[a]	7.2	---	229	----	---	136	19	46	--	38	5	52	--	--	115[b]	
				4- 7-31[a]	---	362	---	Tr.	---	125	16	44	--	25	4	46	--	58	78[b]	
				12-17-31[a]	---	348	---	0.05	---	125	20	43	Tr.	25	3	46	--	56	74[b]	
				9- 1-32[a]	---	359	---	0.12	---	125	20	43	1	25	4	47	--	57	78[b]	
				12- 5-46[c]	---	359	---	0.04	---	128	25	46	--	34	3	41	--	48	97[b]	
				9-21-53[c]	---	350	---	Tr.	1.1	113	14	60	--	29	1	46	--	57	76[b]	CO_3 = 3 ppm.
[illegible] 1S/4W- 2A3	San Bernardino; 1,000 feet N. of 9th St., 850 feet W. of Tippecanoe St. Owner: Riverside Water Company, Miller well. Use: Irrigation. Casing: 12 inches.	1,072	981	12-27-53[c]	---	462	---	----	---	192	21	59	Tr.	77	3	20	--	18	204[b]	
[illegible] 1N/4W- [illegible]	San Bernardino; 850 feet N. of 6th St., 0.48 mile W. of Stiles St. Owner: City of San Bernardino, Antil well No. 4. Use: Municipal. Casing: 15 inches.	1,052	1,066	12- 5-46[c]	---	366	---	0.06	---	134	18	64	--	45	6	29	--	32	137[b]	
[illegible] 1N/4W- [illegible]	Del Rosa; 120 feet E. of Del Rosa Ave., 60 feet S. of Pumalo Ave. Owner: J.J. [illegible]. S.B.Co.F.C.D. sample point No. 454.	1,285	-----	4- 4-50[e]	6.9	625	420	0.43	0.7	202	42	75	27	51	15	61	--	41	190	
				4- 7-53[e]	7.7	455	311	0.28	0.8	159	20	30	26	50	17	21	2	19	193	
E-44k 1N/4W-[illegible]	Del Rosa; 0.25 mile E. of Del Rosa Ave., 600 feet N. of Pumalo Ave. Owner: A.C. Cameron. Use: Domestic and irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 455.	1,203	465	4- 4-50[e]	7.4	522	355	0.25	0.3	192	22	86	6	66	18	17	--	13	238	
				4- 7-53[e]	7.7	499	327	0.07	0.6	188	20	48	7	64	20	14	2	11	237	
E-45b [illegible]	Del Rosa; 10 feet W. of Del Rosa Ave. at turn to east, 0.25 mile S. of Highland Ave. Owner: F.M. Cooley. Use: Irrigation. Perforated 75-85.	1,150	124	2-28-33[a]	---	506	---	0.31	---	131	27	98	27	44	14	49	--	39	167[b]	
				6- 9-47	---	595	---	0.30	---	159	31	94	35	53	15	55	--	38	194[b]	
				7-10-51	8.6	770	---	0.43	---	232	35	162	29	72	12	87	--	45	229[b]	
				4- 2-53	7.9	500	---	0.24	---	177	28	78	2	40	12	58	--	45	149[b]	
[illegible] 1N/4W-[illegible]	Del Rosa; 50 feet S. of Highland Ave., 0.15 mile W. of Del Rosa Ave. Owner: John Ralphs. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 462.	1,175	135	4- 5-50[e]	7.6	606	412	0.56	0.3	164	30	105	27	59	17	46	--	32	216	
				4- 7-53[e]	7.8	645	436	0.33	0.6	154	33	117	36	62	20	48	3	30	231	
[illegible] 1N/[illegible]	Del Rosa; 55 feet N. of 17th St., 175 feet W. of Del Rosa Dr. Owner: Pioneer Gardens Water Co. Use: Domestic. Casing: 12 inches. Perforated 81-91; 115-127; 133-137; 235-238; 384-390. S.B.Co.F.C.D. sample point No. 362.	1,146	403	1- 4-49[e]	6.6	630	402	0.42	1.1	173	25	106	42	58	16	61	--	39	212	
				4- 7-53[e]	7.3	597	396	0.36	2.0	176	28	79	41	48	17	52	2	37	187	
[illegible] 1N/4W-[illegible]	Del Rosa; S. side of 18th St., 600 feet W. of Glasgow Ave. Owner: Prout. Use: Domestic. Casing: 10 inches. Perforated 48-51; 75-78; 101-105. S.B.Co.F.C.D. sample point No. 360.	1,131	239	1- 4-49[e]	6.5	601	396	0.35	Tr.	158	25	85	40	60	18	43	--	30	223	
				4- 7-53[e]	7.3	637	429	0.15	0.7	217	32	49	40	66	20	40	3	26	245	
				11- 4-53	8.3	555	390	0.16	0.7	168	26	79	37	57	14	46	2	--	199[b]	CO_3 = 5 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Name and state well number	Location and description	Elevation of ground surface U.S.G.S. datum	Total depth of well in feet	Date sampled	pH	Conductivity (E.C.x10⁻⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
[illegible]-45k 1N/4W-[illegible]	Del Rosa; 0.15 mile W. of Del Rosa Ave., 50 feet S. of Pumalo Ave. Owner: G.B. Johnson. Use: Domestic and irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 460.	1,191	116	4- 4-50[e] 4- 7-53[e]	7.2 7.4	515 527	348 356	0.69 0.49	0.8 1.6	146 163	22 22	81 73	28 29	36 36	11 10	63 56	-- 3	50 48	135 126	
[illegible]-45q 1N/4W-[illegible]	Del Rosa; 1,300 feet E. of Del Rosa Ave., 20 feet S. of Pumalo Ave. Owner: Reynolds. Use: Domestic and irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 456.	1,188	273	4- 4-50[e] 4- 7-53[e]	7.5 7.6	441 464	282 321	0.25 0.38	0.5 1.2	192 173	16 19	43 38	14 23	63 42	15 14	22 38	-- 2	18 33	219 160	
[illegible]-45u 1N/4W-[illegible]	Del Rosa; 50 feet S. of Fisher Ave., 45 feet W. of Del Rosa Ave. Owner: Pioneer Gardens Water Co., Plant No. 1. Use: Domestic. Perforated 65-92. S.B.Co.F.C.D. sample point No. 363.	1,221	195	1- 4-49[e]	6.7	687	467	0.33	0.7	220	16	89	62	84	19	40	--	23	289	
[illegible]-[illegible]aa 1N/4W-[illegible]	Del Rosa; 350 feet S. of 19th St., 35 feet E. of Del Rosa Dr. Owner: Lawrence Starr. Use: Irrigation and domestic. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 461.	1,158	---	4- 5-50[e] 4- 7-53[e]	7.3 7.1	640 595	427 395	0.50 0.19	0.4 2.0	143 176	31 28	119 75	43 40	61 51	18 16	49 56	-- 2	32 38	227 191	Abandoned prior to [illegible]
E-481 1N/4W-[illegible]	Del Rosa; 200 feet N. of Base Line Ave., 0.1 mile E. of Del Rosa Ave. Owner: A. Osbun. Use: Irrigation and domestic. Casing: 3 inches.	1,099	165	9- 1-32[a] 10-13-37 8-15-39	--- --- ---	453 556 630	--- --- ---	0.26 0.32 ----	--- --- ---	156 197 209	18 23 25	41 59 91	27 25 4	24 33 42	7 8 9	66 76 79	-- -- --	61 54 55	89[b] 115[b] 142[b]	
[illegible]-48j 1N/4W-[illegible]	Del Rosa; 200 feet N. of Base Line Ave., 100 feet E. of Del Rosa Ave. Owner: Pioneer Gardens Water Co. Use: Domestic. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 364.	1,098	696	1- 4-49[e] 4- 7-53[e]	7.4 7.6	675 656	338 440	0.82 0.42	0.4 0.7	119 198	34 31	136 72	7 34	77 69	5 18	45 50	-- 2	31 30	213 243	
[illegible]-4[illegible]1 1N/3W-32C1	Patton; 150 feet S. of Highland Ave., 0.16 mile W. of Central Ave. Owner: [illegible] State Hospital. Use: Irrigation and domestic. Casing: 18 inches. [illegible]. S.B.Co.F.C.D. sample point No. 356.	1,285	1,428	9-23-32[a] 6- 9-47 12-24-48[e] 3-18-53[e] 5- 8-53	--- --- 6.8 7.3 ---	409 521 584 495 620	--- --- 382 319 ---	0.08 0.10 0.25 0.07 0.05	--- --- 0.9 0.8 ---	177 207 218 203 244	16 17 22 17 20	53 38 43 34 36	13 62 55 32 49	32 51 64 44 54	10 14 14 21 18	44 49 50 32 55	-- -- -- 2 --	44 36 33 26 30	121[b] 186[b] 219 103 212[b]	
[illegible]-4[illegible] 1N/3W-31B1	SW. of Patton; 1,300 feet N. of Pacific Ave., 1,300 feet W. of Victoria Ave. Owner: Patton Dairy. Casing: 16 inches. Perforated 140-154; 194-234; 258-283; 305-320; 326-346; 356-381. S.B.Co.F.C.D. sample point No. 353.	1,228	399	12-23-49[e] 3-18-53[e]	6.8 7.2	510 428	349 297	0.20 0.10	0.1 0.5	193 168	17 13	31 21	61 42	60 42	20 16	28 24	-- 1	21 23	234 171	
[illegible]-[illegible] 1N/2W-[illegible]	W. of Highland; 600 feet S. of Pacific St., 40 feet W. of Orange St. Owner: East Highland Orange Co. Use: Irrigation. Casing: 12 inches. Gravel 1[illegible]-180; 320-250; 364-720. S.B.Co. F.C.D. sample point No. 116.	1,145	752	10-29-28[a] 12-23-44[e] 2-23-53[e]	--- 7.8 7.5	--- 676 508	--- 440 324	---- 0.44 0.07	--- --- 0.6	146 106 249	32 6 19	136 52 28	-- -- 18	61 33 47	9 12 16	55 110 24	-- -- 16	39 64 20	189[b] 133 181	
[illegible]-[illegible] 1N/3W-[illegible]	E. of San Bernardino; 50 feet E. of Victoria St., 0.12 mile N. of Base Line Ave. Owner: Harlem Springs Roberts. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 124.	1,144	238	4- 6-31[a] 9-22-32[a] 1-30-45[e] 6- 9-47 7-10-51 6-26-52 5- 8-53	--- --- 7.7 --- --- 7.3 7.8	273 283 317 345 320 330 340	--- --- 197 --- --- --- ---	0.02 0.06 0.00 0.20 0.02 0.06 0.05	--- --- --- --- --- --- ---	122 125 133 136 134 134 134	7 5 11 12 11 7 12	17 10 21 28 27 27 16	-- 11 17 32 24 20 23	10 12 17 34 39 37 28	2 1 1 2 6 8 14	24 52 55 52 18 19 21	-- -- -- -- -- -- --	74 77 73 55 35 25 26	33[b] 34[b] 45 93[b] 123[b] 135[b] 127[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-50m 1N/3W-31K1	NE. of San Bernardino; 800 feet N. of Base Line Ave., 0.58 mile E. of Sterling St. Owner: Base Line Laundry. Use: Laundry. S.B.Co.F.C.D. sample point No. 109.	1,125	201	4- 4-31[a]	---	384	---	0.25	---	116	16	55	--	11	3	63	--	78	40[b]	Destroyed prior to 11-27-51.
				12-29-44[e]	7.2	426	302	0.10	---	124	30	61	18	15	1	128	--	87	42	
				1-30-45[e]	8.0	431	294	0.06	---	119	23	57	12	13	1	86	--	85	34	
E-50p 1N/3W-31K1	E. of San Bernardino; 660 feet E. of Orange St., 40 feet S. of Pacific Ave. Owner: University of Redlands. Use: Irrigation. Casing: 12 inches.	1,174	186	5- 8-48	---	562	---	0.04	---	263	18	37	71	59	17	46	--	31	218[b]	
				7-10-51	8.0	420	---	0.05	---	183	14	28	24	35	5	50	--	51	115[b]	
				6-25-52	7.8	590	---	0.06	---	232	14	40	67	58	18	42	--	29	219[b]	
				6- 2-53	7.9	480	---	0.15	---	183	14	28	21	32	9	56	--	51	117[b]	
E-50x 1N/3W-31Q4	NE. of San Bernardino; 1,900 feet W. of Victoria St., 575 feet N. of Base Line Ave., 100 feet NW. of Base Line Laundry building. Owner: Clark Well Co. Use: Laundry. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 110.	1,125	320	12-29-44[e]	6.8	635	435	0.46	---	85	59	178	20	40	5	120	--	68	122	
				1-30-45[e]	7.8	664	484	0.24	---	89	56	173	1	47	7	83	--	56	145	
E-51 1S/3W- 6H2	E. of San Bernardino; 60 feet S. of Temple St., 100 feet W. of Victoria St. Owner: C.F. Crole. Use: Domestic. Casing: 6 inches. S.B.Co.F.C.D. sample point No. 203.	1,148	284	1-28-47[e]	7.3	415	235	0.28	---	128	14	42	67	51	11	22	--	22	174	
				11-27-51[e]	7.7	840	605	0.48	0.1	105	55	248	1	107	12	46	--	24	318	
				3-18-53[e]	7.1	412	273	0.13	0.3	127	17	35	39	42	15	19	2	20	164	
E-51a 1S/3W- 6L1	E. of San Bernardino; 0.10 mile N. of 6th St., 0.35 mile E. of Sterling Ave. Owner: A. Gregory. Use: Irrigation. Casing: 14 inches. Perforated 153-165; 361-379; 391-411; 456-464; 498-504.	1,092	523	9-23-32[a]	---	225	---	0.08	---	110	5	7	6	27	1	13	--	28	72[b]	
				6- 9-47	---	222	---	0.10	---	116	4	10	7	28	7	13	--	23	99[b]	
				7-10-51	8.6	280	---	0.03	---	122	11	13	10	32	3	17	--	28	92[b]	
				6-25-52	8.0	260	---	0.00	---	128	4	12	9	31	6	17	--	26	103[b]	
				9-24-53[f]	8.0	221	98	0.00	0.2	117	11	10	11	30	4	16	2	--	91[b]	
E-51h 1S/3W- 5D1	E. of San Bernardino; 150 feet E. of San Francisco St., 250 feet N. of Sparks Ave. Owner: Southern California Water Co., Gull Plant. Use: Domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 359.	1,154	286	1- 4-49[e]	6.6	326	417	0.14	0.3	132	10	21	21	44	14	18	--	20	166	
				3-18-53[e]	7.2	328	215	0.02	0.3	127	12	19	25	37	9	17	2	22	128	
E-51v 1S/3W- 6P11	E. of San Bernardino; 100 feet W. of Lankershim St., 200 feet S. of 6th St. Owner: Carman, in. Use: Irrigation. S.B.Co.F.C.D. sample point No. 463.	-----	---	12-12-49[e]	7.5	287	204	0.15	0.1	102	13	17	21	34	13	7	--	10	138	
				11-27-51[e]	7.0	430	300	0.06	Tr.	137	30	43	30	50	17	17	--	16	194	
E-52b 1S/3W- 6F1	E. of San Bernardino; SW. corner of Lankershim St. and 6th St. Owner: C. Goodman. Use: Domestic. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 668.	1,123	115	11-27-51[e]	7.2	480	338	0.08	Tr.	151	24	33	39	56	13	19	--	18	194	
				2-25-53[e]	7.1	543	330	0.10	0.4	151	29	76	36	56	19	24	2	19	214	
E-52m 1S/3W- 6R2	E. of San Bernardino; 15 feet W. of Victoria Ave., 200 feet N. of 5th St. Owner: Kamp, Botton, Myers, et al. Use: Irrigation. S.B.Co.F.C.D. sample point No. 205.	1,145	113	1-28-47[e]	7.7	207	143	0.76	---	107	8	4	16	27	5	11	--	22	88	
				11-27-51[e]	7.0	300	205	0.65	0.0	107	16	12	36	32	8	13	--	20	114	
				2-25-53[e]	7.5	239	142	0.47	0.3	112	8	11	8	21	12	13	2	21	98	
				11- 3-53	7.8	222	107	0.56	0.4	110	5	12	7	24	5	13	2	--	80[b]	
E-53a 1N/3W-29M1	Patton; 50 feet E. of Victoria Ave., 0.4 mile N. of Highland Ave. Owner: Patton State Hospital, west line well. Use: Domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 352.	1,345	408	12-23-48[e]	6.8	391	266	0.34	0.5	154	12	28	29	45	7	24	--	27	140	
				3-18-53[e]	7.3	---	255	----	0.7	151	13	37	24	33	16	26	2	27	148	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								BUNKER HILL BASIN - (continued)												
[illegible] 1N/[illegible]-31M1	E. of San Bernardino; 1,320 feet E. of Sterling Ave., 30 feet S. of Pacific Ave. Owner: Jens Morley, et al. Use: Domestic and irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 209.	1,147	295	1-23-47[e] 2-23-53[e] 11- 3-53	7.6 7.6 7.9	305 398 388	192 258 255	0.66 0.07 0.12	--- 0.9 0.8	142 134 146	9 14 12	14 29 32	35 39 31	35 39 40	9 10 8	23 26 29	-- 1 1	29 28 --	123 137 133[b]	
[illegible]-34a [illegible]	E. of San Bernardino; 75 feet S. of Love Lane, 300 feet W. of Orange St. Owner: Anderson Mutual Water Co. Use: Irrigation. Casing: 20 inches. Perforated 216-480; 496-500.	1,320	525	6-23-49 6-26-52 5- 8-53	8.2 7.9 8.7	483 640 600	--- --- ---	0.16 0.46 0.35	--- --- ---	133 116 85	22 28 66	33 162 96	27 10 6	37 21 15	7 1 1	66 120 113	-- -- --	54 82 86	121[b] 56[b] 42[b]	
[illegible]-[illegible] [illegible]	N. of San Bernardino; 600 feet S. of Main St., 75 feet E. of Palm Ave. Owner: Southern California Water Co., Highland Palm well. Use: Domestic. Casing: 20 inches. Perforated 182-238; 260-318; 392-448. Bottom aquifer (392-448) sealed at 380 feet in August, 1949.	1,285	500	9-16-49[h] 6-23-49 6-25-52 5- 8-53	8.0 --- 7.8 7.6	--- 649 440 580	377 --- --- ---	0.01 0.84 0.04 0.04	0.6 --- --- ---	171 110 180 180	21 36 7 21	83 273 34 39	-- 14 28 55	60 42 46 40	13 8 12 17	24 100 36 37	-- -- -- --	-- 62 32 29	203[b] 138[b] 104[b] 170[b]	Temperature = 51°C. Temperature = 51°C.
[illegible]-[illegible] [illegible]	E. of San Bernardino; 1,250 feet E. of Pale Ave., 1.3 mile S. of 3rd St. Owner: Tri-City Rock and Gravel Co. Use: Domestic and industrial. Casing: 12 inches. S.B.Co.F.C.D. sample point Nos. 473 and 916.	1,204	198	5- 3-50[c] 4-29-53[e] 5-29-53[e] 7- 7-53[e]	7.4 7.2 7.3 6.6	385 749 735 725	233 437 433 470	0.15 1.70 1.81 ----	0.3 0.4 0.4 ---	200 307 315 ---	9 58 57 --	17 33 40 --	15 30 28 --	48 68 70 --	10 17 16 --	13 52 56 --	-- 7 6 --	15 31 33 --	162 239 239 ---	
[illegible]-[illegible] 1N/[illegible]-27N[illegible]	[illegible] N. of Highland; [illegible] feet N. and [illegible] feet E. of City Creek crossing under Highland Ave. Owner: Southern California Water Co., City Creek Highland [illegible] Use: Domestic. S.B.Co.F.C.D. sample point No. 366.	1,475	308	4-25-30[a] 1- 4-49[c]	--- 8.4	599 516	--- 273	1.03 0.60	--- 7.8	122 105	20 18	83 87	-- 13	9 9	2 6	85 101	-- 2	86 82	30[b] 47	CO_3 = 14 ppm.
[illegible]-[illegible] 1N/[illegible]-27N[illegible]	N. of Highland; 115 feet N. of Highland Ave., 680 feet E. of City Creek Road. Owner: Highland Well Co. Use: Irrigation.	1,473	72	Oct., 1918[a] 6- 9-47 7-10-51 6-25-52 6- 2-53	--- --- 9.4 7.6 7.8	--- 334 400 290 430	--- --- --- --- ---	---- 0.30 0.01 0.10 0.13	--- --- --- --- ---	122 137 244 128 171	10 12 11 9 11	21 12 23 26 31	2 18 15 10 11	28 22 36 26 41	8 9 9 7 10	15 34 18 30 33	-- -- -- -- --	24 44 15 41 33	103[b] [illegible][b] 127[b] 94[b] 143[b]	
[illegible]-[illegible] 1N/[illegible]-27N[illegible]	N. of Highland; [illegible] feet N. and 300 feet E. of City Creek crossing under Highland Ave. Owner: Southern California Water Co., well No. 1. Use: Domestic. Casing: 20 inches. S.B.Co. F.C.D. sample point No. [illegible].	1,490	150	1- 4-49[c] 3-18-53[e]	8.6 7.2	483 268	315 166	0.29 0.05	1.1 0.6	163 134	16 9	50 9	37 6	46 25	7 10	38 18	-- 1	36 27	143 102	
[illegible]-[illegible] [illegible]-34[illegible]	East Highland; 400 feet N. of 3rd St., 650 feet E. of Orange St. Owner: J.D. Lamford. Use: Irrigation. Casing: 16 inches. Perforated 175-[illegible].	1,265	305	9-22-32[a] 11-30-48 7-10-51 6-25-52 7- 2-53	--- --- 7.5 8.1 7.8	261 237 410 360 480	--- --- --- --- ---	0.05 0.04 0.02 0.01 0.01	--- --- --- --- ---	113 114 165 153 164	7 8 11 11 12	9 13 25 21 30	9 27 40 27 32	27 29 44 43 52	7 7 9 10 12	16 17 22 23 26	-- -- -- -- --	27 27 25 25 22	97[b] 101[b] 147[b] 145[b] 179[b]	
[illegible]-[illegible] [illegible]-34[illegible]	N. of San Bernardino; 1,[illegible] feet N. [illegible] St., [illegible] feet W. of Meister St. Owner: Lake Valley Mutual Water Co. Use: Irrigation. Casing: 20 inches. Perforated: [illegible]. S.B.Co. F.C.D. sample point No. 864	1,242	500	9- 9-52[e] 11- 3-53	7.4 7.7	374 422	302 253	0.07 0.08	0.1 0.4	164 156	16 13	39 35	39 42	51 48	18 8	25 26	2 2	21 --	203 163[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-59r 1S/3W- 3N3	E. of San Bernardino; 0.25 mile W. of Webster Ave., 265 feet S. of 3rd St. Owner: Van Metterea Dairy. Use: Domestic. Casing: 6 inches. S.B.Co.F.C.D. sample point No. 254.	1,251	---	2-16-48[e]	6.0	291	200	0.53	0.3	109	9	15	14	37	6	10	--	16	119	
				4- 7-49[e]	8.3	258	165	0.66	0.1	105	13	14	22	24	8	26	--	37	96	
				11-27-51[e]	7.3	200	145	0.14	0.0	96	9	6	12	22	5	12	--	26	73	
				2-25-53[e]	6.9	221	142	0.13	0.3	108	11	5	13	21	6	20	2	35	77	
E-61c 1S/3W- 2B1	East Highlands; 75 feet N. of Greenspot Rd., [illegible] mile E. of Church St. Owner: East Highlands Orange Co., Small well. Use: Domestic and irrigation. Casing: 24 inches.	1,369	438	Oct., 1918[a]	---	---	---	----	---	92	10	10	0	20	6	6	--	14	75[b]	
				[illegible]	---	238	---	0.06	---	107	5	8	9	24	6	16	--	30	85[b]	
				11-30-48	---	348	---	0.00	---	158	9	33	53	49	9	21	--	22	159[b]	
				6-25-52	7.3	270	---	0.02	---	122	7	12	24	30	6	23	--	33	100[b]	
				9-24-53[f]	7.4	328	236	0.00	0.2	126	12	21	31	41	3	22	2	--	114[b]	
E-61f 1S/3W- 2P2	East Highlands; 75 feet N. and 50 feet E. of intersection of Greenspot Rd. and Cortez St. Owner: East Highlands [illegible]. Use: [illegible] and irrigation. Casing: 20 inches. Perforated [illegible].	1,347	480	11-30-48	---	345	---	0.00	---	150	11	32	44	46	9	22	--	24	152[b]	
E-62a 1S/3W- 1H1	E. of East Highlands; 50 feet N. and [illegible] S., R. 3 W., S.B.B. & M., on W. bank of Plunge Creek. Owner: Huffman and [illegible]. Use: Irrigation. Casing: 24 inches. Perforated [illegible]; [illegible]-348.	1,541	450	9-22-32[a]	---	253	---	0.08	---	119	7	14	2	25	8	18	--	30	87[b]	
				11-30-48	---	397	---	0.00	---	192	13	46	31	55	14	23	--	20	195[b]	
				7- 2-53	7.5	480	---	0.03	---	177	12	38	21	44	17	26	--	22	180[b]	
E-62c 1S/3W- 2J2	East Highlands; 770 feet N. and 560 feet W. of intersection of Greenspot [illegible] and A.T. [illegible] R.R. Owner: Smith, Poelstra, Cramm, et al. Use: Domestic and irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 981.	1,408	215	Sept., 1953[e]	7.1	421	285	0.00	0.2	149	10	40	38	47	10	22	2	23	159[b]	
E-85h 1S/4W- 9N4	SW. of San Bernardino; 150 feet E. of Mt. Vernon Ave., 220 feet N. of Mill St. Owner: City of Colton, old well No. 12. Use: City Plunge. Casing: 14 inches. Perforated 272-294; 326-334; 538-608; 802-812; 884-892. S.B. Co.F.C.D. sample point No. 803.	1,063	904	7-17-52[e]	7.8	390	248	----	---	205	8	27	Tr.	42	7	34	3	35	136	
E-88t 1S/4W- 9H1	SW. of San Bernardino; 1,[illegible] feet N. of Mill St., [illegible] feet W. of [illegible] St. Owner: City of San Bernardino, Birch St. well. Use: Municipal. Casing: 16 inches.	1,052	400	1-25-34[g]	---	404	367	----	---	226	9	26	--	66	12	4	--	--	214[b]	
				7-22-46[c]	---	415	---	0.14	---	229	11	52	--	64	10	25	--	21	201[b]	
E-88w 1S/4W- 9J1	San Bernardino; 65 feet N. of Columbia St., 554 feet W. of G St. Owner: City of San Bernardino, G St. well. Use: Municipal. Casing: 16 inches. Perforated 150-182; 208-290; 270-298; 338-348.	1,029	508	11-27-46[c]	---	483	---	0.32	---	231	5	45	--	67	13	11	--	9	222[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface U.S.G.S. datum	Total depth of well in feet	Date sampled	pH	Conductivity (μ x 10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as ($CaCO_3$), in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-89t 1S/4W-16L3	SW. of San Bernardino; 75 feet W. of J St. produced, 120 feet S. of Hillcrest Ave. Owner: Radio Station KRNO, Not well. Use: Domestic. Casing: 6 inches (in 4-foot pit). S.B.Co.P.C.D. sample point No. 804.	1,051	600	7-17-52[e]	8.1	595	402	3.19	6.0	127	121	24	39	9	2	128	1	89	32	
E-89x [illegible]/4W-16[illegible]	SW. of San Bernardino; 380 feet SW. of Knoll Dr., 110 feet NW. of Scenic Dr., produced. Owner: O.E. Smelser. Use: Domestic. Casing: 8 inches. Gravel 75-78; [illegible]. S.B.Co.P.C.D. sample point No. 582.	1,020	91	2-19-51[a]	7.6	516	352	0.07	---	237	8	67	2	63	6	40	--	33	180	
[illegible] 1S/4W-1[illegible]	San Bernardino; 626 feet E. of E St., 561 feet S. of Rialto Ave. Owner: City of San Bernardino, Stoddard St. well	1,014	792	6- 8-51[c]	---	722	---	0.12	0.9	204	75	38	--	57	14	74	--	44	199[b]	CO_3 = 30 ppm.
				8-10-51[c]	---	479	---	1.60	3.7	131	76	33	--	26	4	76	--	67	81[b]	
[illegible] 1S/4W-1[illegible]	S. of San Bernardino; 0.7 mile S. of Mill St., 100 feet W. of E St. Owner: Weeks and Daly Water Co., South E St. well. Use: Irrigation. Casing: 20 inches. Perforated [illegible]; [illegible].	980	603	8-27-31[a]	---	408	---	0.21	---	210	7	24	0	47	9	25	--	26	154[b]	
				12-15-31[a]	---	390	---	0.30	---	176	21	24	Tr.	36	7	38	--	41	114[b]	
				10- 6-37	---	423	---	0.38	---	209	21	28	Tr.	46	7	38	--	36	144[b]	
				11-14-46	---	402	---	0.30	---	211	14	33	0	49	8	31	--	30	15[illegible][b]	
				9-23-53[f]	8.0	393	270	0.32	1.4	187	37	28	1	43	4	48	3	--	124	
[illegible] 1S/4W-14[illegible]	S. of San Bernardino; 1,375 feet NE. of Scenic Dr. and 600 feet SE. of [illegible] Ave. Owner: [illegible] Park. Casing: 8 inches. Perforated [illegible]; [illegible]. S.B.Co.P.C.D. sample point No. 592.	1,000	[illegible]	4- 4-30[a]	---	417	---	0.05	---	256	5	14	--	54	9	28	--	26	172[b]	Flowing well.
				11- 4-48	---	385	---	0.00	---	256	4	10	Tr.	51	9	30	--	29	1[illegible][b]	
				3-14-51[e]	8.0	412	263	0.04	0.2	261	6	11	4	50	11	27	--	26	1[illegible]	
[illegible] 1S/4W-16[illegible]	S. of San Bernardino; 50 feet W. of Arrowhead Ave., 0.7 mile S. of Mill St. Owner: Gregory and Langford. Use: Domestic. Casing: 10 inches. S.B.Co.P.C.D. sample point No. 596.	1,003	274	9- 2-31[a]	---	452	---	1.03	---	171	46	22	0	22	2	76	--	72	63[b]	
				11- 4-48	---	400	---	0.79	---	192	25	25	Tr.	30	4	58	--	58	91[b]	
				3-15-51[e]	8.0	454	273	0.98	0.6	171	50	29	2	25	4	69	--	65	75	
[illegible] 1S/4W-10[illegible]	San Bernardino; 202 feet N. of Mill St., 98 feet W. of D St. Owner: City of San Bernardino. Use: Municipal. Casing: 16 inches. Perforated 258-272; [illegible]; 414-417 (lowest strata sampled).	1,001	567	11-17-36[b]	---	455	---	0.08	---	262	12	32	--	61	17	23	11	22	[illegible][b]	Sampled when drilling
				11-17-36[b]	---	401	---	0.35	---	210	20	29	1	44	11	36	9	37	19[illegible][b]	Sampled from [illegible]
				11-17-36[b]	---	426	---	0.03	---	244	10	36	2	62	13	22	9	22	20[illegible][b]	Sampled from [illegible]
				7-22-46[b]	---	384	---	0.09	---	180	12	30	--	64	6	11	--	12	19[illegible][b]	
[illegible] 1S/4W-21A1	S. of San Bernardino; 850 feet W. of E St., 2,400 feet N. of Colton Ave. Owner: City of San Bernardino. Use: Domestic. Perforated above plug at 150 feet. S.B.Co.P.C.D. sample point No. 594.	972	300	6-13-31[a]	---	519	---	0.62	---	140	69	33	Tr.	32	3	71	--	62	[illegible][b]	
				11- 4-48	---	494	---	1.13	---	133	72	34	Tr.	30	3	79	--	66	87[b]	
				3-15-51[e]	8.0	519	310	0.84	0.6	139	70	40	3	29	4	75	--	65	89	
				9-23-53[f]	8.2	452	298	0.35	2.2	169	33	39	3	28	1	72	2	--	76[b]	CO_3 = 2 ppm.
[illegible] 1S/4W-22A1	S. of San Bernardino; 540 feet S. of Dumas St., 760 feet W. of Waterman Ave. Owner: City of Riverside, Paine well. Use: Industrial. Casing: 9.5 inches.	1,007	82	Mar., 1930[a]	---	---	---	----	---	105	78	27	--	12	11	71	--	67	7[illegible][b]	
				3-26-31[a]	---	468	---	1.48	---	98	73	18	--	8	2	81	--	87	26[b]	
				10-13-37	---	470	---	1.48	---	107	72	26	0	8	0	89	--	90	20[b]	
				9-22-39	---	450	---	----	---	100	66	30	0	5	2	90	--	91	20[b]	
				11-14-46	---	420	---	1.90	---	82	69	31	0	5	1	91	--	92	16[b]	CO_3 = 15 ppm.
				3-16-48	---	378	---	1.50	---	92	67	29	0	4	1	88	--	93	14[b]	
				9-23-53[f]	9.0	483	242	1.55	4.8	87	81	29	1	4	0	101	1	--	10[b]	CO_3 = 4 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC×10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
[illegible]	S. of San Bernardino; 1,700 feet S. of Dumas St., 1,750 feet W. of Waterman Ave. Owner: Riverside Water Co., Thorn Tract well No. 1. Use: Irrigation. Casing: 20 inches. Perforated 64-108; [illegible]; 18[illegible]; [illegible]; [illegible]. Gravel also at 334-340, but not cut.	997	350	6- 7-31[a] 6-10-31[a] 6-13-31[a] 11-27-53[c]	--- --- --- ---	417 430 343 312	--- --- --- ---	0.01 0.02 0.14 ----	--- --- --- ---	171 201 149 149	11 11 14 18	42 40 21 21	4 Tr. 2 Tr.	46 48 31 40	8 8 4 3	24 32 33 26	-- -- -- --	26 32 43 33	148[b] 153[b] 92[b] 112[b]	Bailed from 90 feet. Bailed from 150-[illegible]. Bailed from [illegible].
E-94e 1S/4W-22B4	S. of San Bernardino; 1,175 feet S. of Dumas St., 445 feet W. of Washington Ave. produced. Owner: Riverside Water Co., Thorn Tract Well No. 11. Use: Domestic and irrigation. Casing: 14 inches. Perforated 74-[illegible]; 98-10[illegible]; 114-124; 135-154; [illegible]-214; 218-228.	1,000	238	11-27-53[c]	---	359	---	----	---	162	21	16	Tr.	45	3	25	--	30	137[b]	
E-94f 1S/4W-27A12	E. of Colton; 870 feet W. of Waterman Ave., 74 feet S. of Colton Ave. Owner: City of Riverside. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 424.	1,019	700	11-23-49[e]	7.4	379	242	----	0.6	137	35	26	3	22	6	39	--	51	82	
E-94g 1S/9W-27B1	E. of Colton; 900 feet S. of Colton Ave., 245 feet E. of Hunt Ave. Owner: D.W. Brown. Use: Irrigation. Casing: 10 inches. Gravel 90-108; 116-130.	990	440	3-20-26[a] 3-16-48 9-23-53[f]	--- --- 8.2	--- 435 566	--- --- 345	---- 0.00 0.05	--- --- 0.9	207 212 226	36 30 47	53 37 40	-- 9 25	42 39 52	13 12 11	53 57 63	-- -- 2	42 46 --	158[b] 147[b] 175[b]	
E-94p11 1S/4W-22G11	S. of San Bernardino. Owner: Riverside Water Co., Thorn Tract well No. 4. Use: Domestic and irrigation. Casing: 9 inches. Perforated 65-103.	988	165	11-27-53[c]	---	245	---	----	---	125	7	12	Tr.	32	3	15	--	26	92[b]	
E-94r 1S/4W-22E2	S. of San Bernardino; 200 feet W. of E St., 650 feet N. of Colton Ave. Owner: Smith Packing Co. Use: Industrial. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 595.	975	213	4- 9-31[a] 3-15-51[e] 8-14-52[e] 11- 3-53[f]	--- 8.0 8.2 8.1	504 501 488 508	--- 208 299 309	0.11 0.62 0.76 0.75	--- 0.7 2.0 2.1	201 190 178 176	30 51 52 52	38 27 21 8	-- 1 10 3	39 31 30 45	8 6 6 0	55 69 86 67	-- -- 2 2	48 59 60 --	120[b] 102 98[b] 112[b]	PO_4 = 20 ppm.
E-94y 1S/4W-22G14	SE. of San Bernardino; 80 feet W. of Washington Ave. produced, 2,200 feet S. of Dumas St. Owner: Riverside Water Co., Thorn Tract well No. 3. Use: Domestic and irrigation. Casing: 24 inches. Perforated 70-[illegible]; [illegible]; [illegible]-439; 440-[illegible]; [illegible]-5[illegible]; 585-591; 636-652; 740-748; 75[illegible]-8[illegible]; 822-828; [illegible]-941; [illegible]-[illegible]; [illegible]-[illegible].	984	988	11-27-53[c]	---	437	---	----	---	192	21	34	4	60	2	31	--	30	158[b]	
E-95p 1S/4W-16J8	S. of San Bernardino; 205 feet SE. of Colton Ave., 90 feet SW. of Jefferson Ave. produced. Owner: F.J. Sheer. Use: Domestic. Casing: 6 inches. Perforated 31-36. S.B.Co.F.C.D. sample point No. 593.	1,025	68	3-15-51[e]	7.7	430	296	0.00	0.0	242	6	28	5	61	14	14	--	13	208	
E-96g 1S/4W-22Q1	SE. of San Bernardino; 150 feet N. of U.S. Highway No. 70/99, 10 feet E. of Hunts Lane produced. Owner: Beaver and Burnster. Use: Domestic. Casing: [illegible] inches. Perforated 102-117. S.B.Co.F.C.D. sample point No. 575.	992	117	1-30-51[e] 11- 2-53	7.6 8.2	523 554	322 326	0.00 0.06	0.5 1.1	242 217	28 33	36 37	10 9	38 41	14 16	57 56	-- 2	45 --	152 168[b]	CO_3 = 12 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^4$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-95h 1S/4W-27H7	San Bernardino; 660 feet W. of Waterman Ave., 900 feet S. of S.P.R.R. Owner: [illegible] sample point No. 573.	1,016	---	1-30-51[e]	7.8	465	287	0.19	0.3	188	27	38	5	25	0	73	--	72	62	Artesian well.
				1-15-52[e]	7.9	460	278	0.17	0.8	173	33	36	3	23	2	74	--	72	67	
E-96r 1S/4W-11N1	S. of San Bernardino; 60 feet N. of Mill St., 120 feet E. of Waterman Ave. S.B.Co.P.C.D. sample point No. 206.	1,014	---	1-29-47[e]	7.7	498	272	0.48	---	151	11	37	53	62	10	18	--	16	198	
				6-30-49[e]	6.5	421	261	----	0.1	198	17	38	9	60	12	13	--	13	198	
				4-24-50[e]	7.6	427	286	0.09	0.3	188	16	45	7	64	11	13	--	12	204	
				2-23-53[e]	7.6	443	272	0.15	0.5	186	13	34	6	57	12	15	3	14	187	
E-97 1S/4W-13E1	E. of San Bernardino; 150 feet N. of Central Ave., 600 feet E. of Tippecanoe St. Owner: E.E. Ettlein. Use: Domestic. Casing: 8 inches. S.B.Co. F.C.D. sample point No. 400.	1,059	160	7-27-49[e]	7.2	353	314	0.00	0.3	207	12	68	2	63	12	15	--	--	209	
				4-24-50[e]	7.3	815	560	0.00	0.3	282	14	187	0	127	21	19	--	9	402	
				12-18-50[e]	7.2	828	628	0.11	0.2	300	8	180	3	125	22	20	--	10	402	
				1-30-51[e]	7.4	563	366	0.00	0.3	246	10	92	3	88	13	22	--	15	272	
				3-24-51[e]	7.5	866	630	0.02	0.1	290	20	196	1	137	22	12	--	6	434	
				4-21-52[e]	7.5	430	316	0.17	0.6	215	15	65	0	73	10	14	--	--	226	
				7-16-53[e]	7.4	457	291	0.03	0.9	210	8	60	1	55	19	16	3	14	216	
				11- 3-53	7.9	312	188	0.12	0.5	176	5	15	0	43	8	13	2	--	141[b]	
E-97c 1S/4W-13D5	E. of San Bernardino; 60 feet W. of Tippecanoe Ave., 300 feet S. of Mill St. Owner: Barton. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 945.	1,058	115	7-16-53[e]	7.4	287	180	0.00	0.9	129	11	13	11	32	9	14	2	20	118	
E-97o 1S/4W-11E1	SE. of San Bernardino; 500 feet E. of Waterman Ave., 80 feet N. of Martin Ave. Owner: Randall-Sanders. Use: Domestic. Casing: 8 inches. S.B.Co. F.C.D. sample point No. 202, Ward well.	1,032	70	1-28-47[e]	7.4	1,198	691	1.23	---	291	66	124	128	136	29	65	--	23	460	
				11-27-51[e]	7.0	550	355	0.06	0.1	210	23	68	0	60	14	35	--	27	209	
				2-23-53[e]	6.9	734	472	0.09	0.6	214	24	156	1	77	23	42	4	24	283	
E-98 1S/4W-22R1	S. of San Bernardino; 35 feet W. of Waterman Ave., 500 feet N. of Colton Ave. Owner: L.A. Lambert. Use: Domestic and irrigation. Casing: 12 inches. Gravel 102-128; 160-172; 186-202; 206-222; 550-610. S.B.Co.F.C.D. sample point No. 690.	1,014	610	6-13-31[a]	---	371	---	0.10	---	119	18	33	3	27	6	31	--	43	93[b]	
				1-15-52[e]	7.8	360	216	0.00	0.5	147	27	17	2	25	5	45	--	55	82	
				11- 2-53	8.2	303	192	0.08	0.9	129	7	21	2	23	5	38	2	--	78[b]	CO_3 = 10 ppm.
E-98d 1S/4W-15M1	E. of Colton; 400 feet N. of Dumas St., 50 feet W. of Waterman Ave. Owner: Valley Farms Mutual Water Co. Use: Irrigation. Casing: 8 inches.	1,013	300	3-27-31[a]	---	287	---	0.05	---	149	4	4	--	34	6	9	--	15	110[b]	
				3-16-48	---	227	---	0.00	---	142	4	12	Tr.	24	6	19	--	33	85[b]	
E-98b 1S/4W-23F2	S. of San Bernardino; 1,320 feet E. of Waterman Ave., 100 feet N. of Colton Ave. Owner: Gage Canal Co., well No. 17. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 149.	1,027	582	6-13-31[a]	---	509	---	0.09	---	217	28	45	10	46	9	55	--	44	152[b]	
				2-14-45[e]	7.6	385	247	0.00	---	174	14	26	9	37	7	44	--	44	124	
				5- 2-45[e]	7.8	391	233	0.05	---	175	13	19	6	42	8	39	--	38	139	
				12- 7-48[e]	7.7	419	266	0.29	1.5	176	21	36	7	49	8	50	--	42	152	Now destroyed.
E-98p 1S/4W-13N1	N. of Loma Linda; 320 feet N. of San Bernardino Ave., 160 feet W. of Tippecanoe Ave., N. side of Gage Canal. Owner: Gage Canal Co., well No. 29-2. Use: Irrigation. Casing: 24 inches. Perforated 122-290.	1,040	325	8- 6-32[a]	---	543	---	0.01	---	183	23	85	9	73	15	23	--	17	244[b]	
				10-13-37	---	410	---	0.08	---	167	14	36	13	52	18	21	--	23	204[b]	
				8-15-39	---	380	---	----	---	150	11	36	7	47	7	18	--	21	207[b]	
				11-14-46	---	625	---	0.00	---	217	28	126	16	102	16	30	--	17	266[b]	
				9-23-53[f]	7.9	556	361	0.20	0.4	221	24	66	33	78	10	31	3	--	236[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-98s 1S/4W-23K2	N. of Loma Linda; 650 feet W. of intersection of Orchard Dr. and Laurelwood Dr. Owner: Gage Canal Co., well No. [illegible]. Use: Irrigation. Casing: 24 inches. Perforated [illegible]; 11[illegible]-187; [illegible]; [illegible]. S.B.Co.F.C.D. sample point No. 686.	1,040	303	9-12-32[a]	---	715	---	0.07	---	327	32	50	12	64	22	62	--	35	250[b]	
				1-16-52[e]	7.3	930	583	0.00	0.3	364	48	71	64	85	35	63	--	28	355	
				11- 2-53	7.6	848	549	0.08	0.8	327	43	72	53	78	28	65	2	--	310[b]	
E-98t 1S/4W-23R3	N. of Loma Linda; 75 feet W. of Anderson St., 800 feet N. of U.S. Highway No. 70/99. Owner: Coe Water Co. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 689.	1,062	627	1-15-52[e]	7.4	720	443	0.00	0.3	284	33	42	42	70	24	46	--	27	271	
E-98v 1S/4W-26A1	N. of Loma Linda; 100 feet W. of Anderson Ave., 100 feet S. of U.S. Highway No. 70/99. Owner: College of [illegible] Evangelists, Colton well. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 683.	1,065	550	1-15-52[e]	7.4	880	536	0.00	0.4	331	48	60	63	65	26	84	--	40	269	
E-[illegible] 1S/4W-26F1	S. of San Bernardino; 0.23 mile E. of Waterman Ave., 0.42 mile S. of Colton Ave. Owner: L.L. Hardy. Use: Irrigation. Casing: 14 inches. Perforated 405-468; 479-490. S.B.Co.F.C.D. sample point No. 691.	1,033	510	1-15-52[e]	7.9	570	342	0.00	0.4	233	39	30	3	37	7	74	--	57	123	
				11- 2-53	7.9	576	353	0.12	0.9	237	35	48	4	37	9	80	2	--	129[b]	
E-99d 1S/4W-23Q1	SE. of San Bernardino; 950 feet N. of U.S. Highway No. 70/99, 2,350 feet W. of Anderson St. Owner: Gage Canal Co., Kelly well. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 687.	1,041	894	1-16-52[e]	7.7	430	258	0.00	0.7	177	27	16	10	39	9	37	--	38	133	
E-99e 1S/4W-23N1	SE. of San Bernardino; 800 feet E. of Waterman Ave., 600 feet N. of U.S. Highway No. 70/99. Owner: Deck-O-Dobe Auto Court. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 150.	1,024	490	2-14-45[e]	7.5	381	222	0.00	---	179	11	24	9	38	7	42	--	42	126	
				5- 2-45[e]	7.8	368	225	0.04	---	174	11	19	4	39	8	36	--	38	128	
				12- 7-48[e]	7.7	380	236	0.27	1.0	190	14	28	9	41	12	34	--	33	150	
				12-18-50[e]	7.2	379	240	0.10	0.6	173	8	23	10	34	8	34	--	39	118	
				1-15-52[e]	7.7	400	242	0.00	0.7	179	16	20	8	38	8	33	--	36	129	
E-99r 1S/4W-13E3	SE. of San Bernardino; 75 feet W. of Tippecanoe Ave., 120 feet S. of Sullivan St. Owner: Cobler, Lee, Wise, et al. Use: Domestic and irrigation. Casing: [illegible] inches. S.B.Co.F.C.D. sample point No. 946.	1,061	310	7-16-53[e]	7.6	201	123	0.00	0.8	102	3	7	6	17	10	11	2	22	84	
E-100b 1S/4W-14N3	SE. of San Bernardino; 50 feet S. of Pioneer St., 150 feet E. of Waterman Ave. S.B.Co.F.C.D. sample point No. 207.	1,013	---	1-28-47[e]	7.8	320	163	0.50	---	132	8	13	29	40	6	13	--	19	124	
				6-30-49[e]	5.0	244	138	----	0.1	129	10	14	5	30	7	11	--	19	101	
				4-24-50[e]	7.6	244	149	0.02	0.3	128	9	13	2	57	6	10	--	12	166	
				9-24-51[e]	7.8	355	220	0.00	0.1	168	11	28	4	48	9	7	--	9	156	
				2-23-53[e]	7.6	351	208	0.02	0.4	173	8	20	4	44	11	15	3	17	152	
E-100g 1S/4W-13F3	SE. of San Bernardino; 100 feet N. of Central Ave., 0.3 mile E. of Tippecanoe Ave. Owner: Isenberg. Use: Domestic. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 466.	1,060	123	4-24-50[e]	7.4	404	260	0.63	0.2	149	16	17	11	56	10	13	--	13	180	
				7-11-50[e]	7.7	513	302	1.35	0.2	259	22	15	18	73	13	12	--	10	236	
				9-24-51[e]	7.3	554	339	1.73	0.0	278	27	17	15	76	14	15	--	12	248	
				4-21-52[e]	7.5	430	287	1.11	0.3	239	24	14	15	68	10	18	--	16	213	
				7-16-53[e]	7.7	502	314	1.52	0.7	261	20	16	14	61	19	22	3	17	231	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (E Ca10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							BUNKER HILL BASIN - (continued)													
E-100t 1S/4W-[illegible]	SE. of San Bernardino; 1,100 feet S. of Colton Ave., 200 feet E. of Waterman Ave. Owner: Valley Meat Packing Co. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 692.	1,022	750	1-15-52[e]	7.8	600	359	0.00	0.3	252	36	40	9	55	10	58	--	42	176	
E-101b 1S/4W-13M1	SE. of San Bernardino; 0.15 mile E. of Tippecanoe Ave., 600 feet S. of Central Ave. Owner: Gage Canal Co., well No. 30-1. Use: Irrigation. Casing: 24 inches. Perforated 74-174, 200-236; 248-300; 314-348; 360-400; 478-490; 496-538; 600-618; 636-644; 672-676; 682-700; 756-76[illegible]; 766-808; 810-816; 820-822; 838-874; 907-911. S.B.Co.F.C.D. sample point No. 766.	1,099	937	1-15-31[a]	---	326	---	0.02	---	146	7	23	--	29	5	29	--	41	92[b]	
				9-12-32[a]	---	242	---	0.16	---	119	2	9	2	29	7	13	--	21	101[b]	
				4-21-52[e]	7.5	420	293	1.06	0.3	239	24	12	11	65	12	17	--	15	211	
				7-16-53[e]	7.4	468	282	1.33	0.9	239	24	12	12	55	18	20	2	17	212	
E-101c 1S/4W-13P2	SE. of San Bernardino; 750 feet E. of Tippecanoe Ave., 450 feet S. of Central Ave. Owner: Gage Canal Co., well No. 31-1. Use: Irrigation. Casing: 24 inches. Perforated 100-144; 151-174; 198-[illegible]; 2[illegible]4-2[illegible]4; 3[illegible]-340; 378-384; 3[illegible]-402. S.B.Co.F.C.D. sample point No. 373.	1,055	422	9-14-32[a]	---	350	---	0.15	---	155	11	27	1	26	5	45	--	53	85[b]	
				4- 7-49[e]	9.4	265	163	0.68	0.2	142	9	15	4	28	8	23	--	32	104	
				4-23-50[e]	7.5	319	196	0.18	0.3	167	10	16	8	39	8	13	--	18	131	
				7-11-50[e]	7.6	333	199	0.43	0.2	176	10	14	14	48	8	8	--	10	154	
				12-18-50[e]	7.0	326	218	0.45	0.3	171	4	10	8	42	9	14	--	13	141	
				3-24-51[e]	7.5	270	175	0.08	0.2	139	9	12	4	33	6	9	--	16	105	
				7-16-53[e]	7.5	347	212	0.49	0.8	178	12	15	9	42	11	17	2	20	149	
E-101d 1S/4W-13M4	SE. of San Bernardino; 180 feet N. of Central Ave., 490 feet E. of Tippecanoe Ave. Owner: P. Dusserre. Use: Domestic. Casing: 14 inches. S.B.Co. F.C.D. sample point No. 524.	1,063	125	7-11-50[e]	7.5	368	222	0.28	0.3	200	12	14	9	51	10	10	--	12	168	
				1-30-51[e]	7.4	404	246	0.09	0.3	207	11	34	3	55	7	16	--	18	164	
				7-16-53[e]	7.5	314	188	0.09	0.8	168	6	13	3	34	9	14	3	20	146	
E-101l 1S/4W-13B2	SE. of San Bernardino; 150 feet S. of Mill St. at bend, 0.55 mile E. of Tippecanoe Ave. Owner: M. Lemperne. Use: Domestic. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 465.	1,080	170	4-24-50[e]	6.9	689	487	0.21	0.3	243	29	53	79	81	19	25	--	16	281	
				9-24-51[e]	7.5	380	234	0.26	0.0	181	14	17	13	52	9	7	--	8	168	
				4-21-52[e]	7.7	400	292	0.22	0.0	218	13	23	18	64	11	15	--	--	204	
E-102l 1S/4W-24P2	SE. of San Bernardino; SW. corner of Victoria Ave. and Richardson St. Owner: Gage Canal Co. Use: Irrigation. Casing: 24 inches. S.B.Co.F. C.D. sample point No. 632.	1,075	156	5-22-51[e]	7.8	830	510	0.23	0.6	332	28	87	49	77	14	82	--	42	287	
				10- 9-51[e]	---	---	---	----	---	---	--	--	39	--	--	--	--	--	---	
E-102L 1S/4W-24P1	SE. of San Bernardino; 700 feet N. of U.S. Highway No. 70/99, 40 feet W. of Richardson St. Owner: Roberts. Use: Irrigation. Casing: 10 inches. S.B.Co. F.C.D. sample point No. 688.	1,085	516	1-15-52[e]	7.8	570	339	0.00	---	240	43	32	7	44	14	60	--	44	166	
E-102p 1S/4W-25C1	N. of Loma Linda; 60 feet S. of U.S. Highway No. 70/99, 200 feet W. of Popular St. Owner: College of Medical Evangelists, Nelson well. Use: Irrigation. Casing: 14 inches. Perforated 100-200. S.B.Co.F.C.D. sample point No. 685.	1,085	278	1-15-52[e]	7.3	1,000	622	0.04	0.4	370	54	80	68	82	35	73	--	32	348	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-102q 1S/4W-13R1	W. of Redlands; 100 feet W. of Mountain View Ave., 0.14 mile N. of San Bernardino Ave. Owner: Victoria Farms Mutual Water Co. Use: Domestic. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 472.	1,101	217	4-24-50[e]	7.4	779	520	0.21	0.5	227	23	82	79	96	16	44	--	24	304	
				12-18-50[e]	7.1	806	550	0.14	0.4	226	18	54	91	100	17	46	--	24	319	
				4-23-51[e]	7.4	932	553	0.06	0.5	295	28	82	90	104	16	44	--	22	327	
				5-22-51[e]	7.8	801	548	0.07	0.4	290	26	80	94	104	16	51	--	15	326	
				10-11-51[e]	---	---	---	----	---	---	--	--	91	---	--	--	--	--	---	
				8- 6-52[e]	7.4	838	569	0.11	0.8	288	27	84	92	102	18	55	4	26	329	
				11- 2-53	7.8	804	528	0.04	0.8	268	23	89	92	89	15	66	4	--	284	
				2-11-54[e]	7.6	836	541	0.12	0.8	259	26	94	97	94	15	56	4	29	296	
E-102r 1S/4W-24R2	W. of Redlands; 200 feet N. of U.S. Highway 70/99, 100 feet W. of Mountain View Ave. Owner: Edwards. S.B. Co.F.C.D. sample point No. 631.	1,112	---	5-22-51[e]	8.1	585	358	0.00	0.4	234	34	33	32	65	14	34	--	25	222	
				1-15-52[e]	7.6	570	510	0.00	0.3	226	35	28	30	64	13	36	--	27	213	
E-102aa 1S/3W-19N1	W. of Redlands; 0.25 mile W. of Bryn Mawr St., 50 feet N. of U.S. Highway No. 70/99. Owner: J.D. Langford Estate. Use: Irrigation. Casing: 16 inches. Perforated 98-126; 500-574. S.B.Co.F.C.D. sample point No. 652.	1,124	592	9-24-51[e]	7.1	750	465	0.00	0.4	256	53	51	47	73	18	52	--	30	258	
E-103 1S/4W-25H2	NE. of Loma Linda; 100 feet S. and 50 feet W. of intersection of Cottonwood Row and Mountain View Ave. Owner: College of Medical Evangelists. Use: Irrigation. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 651.	1,120	505	4- 4-30[a]	---	791	---	0.04	---	366	43	58	--	60	26	75	--	39	257[b]	
				7-23-47	---	885	---	0.10	---	352	50	72	55	76	29	74	--	34	309[b]	
				9-24-51[e]	7.3	905	560	0.04	0.1	339	52	64	55	78	30	64	--	30	318	
				1-15-52[e]	7.4	790	473	0.00	0.3	336	45	52	30	40	33	86	--	44	234	
				7-30-52	7.9	850	---	0.17	---	342	43	72	48	67	27	76	--	37	279[b]	
E-103c 1S/4W-25E1	Loma Linda; 1,250 feet E. of Anderson St., 200 feet N. of Van Leiven St. Owner: College of Medical Evangelists, Kelley well. Use: Domestic. Perforated 180-194; 198-208; 610-640; 696-784. S.B.Co.F.C.D. sample point No. 684.	1,090	754	8- 4-32[a]	---	696	---	0.05	---	302	45	49	2	53	15	83	--	48	194[b]	
				7-23-47	---	934	---	0.10	---	361	49	81	66	79	31	74	--	33	325[b]	
				3-16-48	---	563	---	0.00	---	301	41	47	6	53	14	84	--	49	189[b]	
				1-15-52[e]	7.7	700	412	0.00	0.2	296	49	42	8	53	13	78	--	48	187	
				8- 4-52	7.6	690	---	0.12	---	293	43	46	10	45	13	85	--	51	165[b]	
				5- 8-53	8.5	660	---	0.05	---	262	50	30	9	38	15	89	--	55	157[b]	
E-103m 1S/4W-25B2	N. of Loma Linda; 1,100 feet E. of Poplar Ave., 1,200 feet S. of Colton Ave. Owner: College of Medical Evangelists, Mead well. Use: Domestic. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 686.	1,102	228	1-15-52[e]	7.5	780	464	0.00	0.3	307	42	58	30	59	25	63	--	38	252	
				11- 2-53	7.7	964	584	0.26	0.8	349	50	88	66	72	32	92	3	--	311[b]	
E-103u 1S/4W-26J1	Loma Linda; 200 feet W. of Anderson St., 150 feet S. of S.P.R.R. Owner: College of Medical Evangelists, Mitchell well. Use: Domestic. Casing: 24 inches. Perforated 188-196; 198-204; 208-211; 352-353; 354-361. S.B. Co.F.C.D. sample point No. 682.	1,079	392	1-15-52[e]	7.7	540	319	0.00	0.4	205	44	37	2	30	6	76	--	62	101	
				11- 2-53	8.0	504	306	0.06	0.7	188	39	41	9	31	5	76	2	--	98[b]	
E-104f 1S/4W-13D7	SE. of San Bernardino; 0.2 mile E. of Tippecanoe Ave., 150 feet S. of Mill St. Owner: J.R. Garner. Use: Domestic. Casing: 12 inches. S.B.Co.F.C. D. sample point No. 374.	1,063	140	4- 7-49[e]	9.1	215	132	0.22	0.2	110	11	12	2	25	7	11	--	21	92	
				1-30-51[e]	7.7	216	139	0.00	0.1	117	4	8	3	24	1	14	--	26	63	
				4-21-52[e]	7.9	180	134	0.06	0.3	105	10	8	3	28	5	10	--	19	90	
E-105d 1S/3W-18L1	NW. of Redlands; 0.5 mile W. of California St., 0.4 mile N. of San Bernardino Ave. Owner: C.S. Chapman. Use: Irrigation. S.B.Co.F.C.D. sample point No. 533.	1,126	---	9-14-50[e]	7.7	590	396	0.00	0.3	195	19	69	78	78	13	24	--	18	246	
				11-10-53[e]	7.8	658	415	0.05	0.4	168	17	76	85	82	16	28	3	18	270	
E-105e 1S/3W-18L1	NW. of Redlands; 30 feet W. of California St., 60 feet N. of Palmetto St. Owner: C.S. Chapman. Use: Irrigation. Casing: 20 inches. S.B.Co. F.C.D. sample point No. 470.	1,154	200	4-24-50[e]	7.4	776	554	0.09	0.3	207	22	84	120	99	18	30	--	17	321	
				4-23-51[e]	7.8	778	538	0.00	0.4	207	22	86	125	102	18	25	--	14	330	
				8- 6-52[e]	7.5	759	545	0.00	0.5	207	22	68	118	103	21	26	4	14	343	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-1[illegible]x 1S/4W-1[illegible]	SE. of San Bernardino; 0.3 mile E. of Tippecanoe Ave., 545 feet S. of Mill St. Owner: Norton Air Force Base. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 948.	1,076	97	7-16-53[c]	7.6	231	150	0.03	0.8	110	5	11	9	26	6	12	2	21	90	
E-106f 1S/3W-19G1	W. of Redlands; 0.2 mile E. of Bryn Mawr Ave., 400 feet N. of Lugonia Ave. Owner: S.V. Franke. Use: Irrigation. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 806.	1,140	660	7- 6-52[e]	7.8	401	256	0.00	0.8	146	23	27	22	46	12	16	2	17	163	
E-106h 1S/3W-19J3	W. of Redlands; 100 feet S. of Lugonia Ave., 80 feet W. of California St. Owner: Mission Mutual Water Co., well No. 2. Use: Irrigation. Perforated 450-480. S.B.Co.F.C.D. sample point No. 554.	1,160	500	10- 9-50[e] 10- 9-51[e]	7.7 ---	370 ---	221 ---	0.14 ----	--- ---	159 ---	14 --	23 --	8 11	34 --	9 --	26 --	-- --	-- --	120 ---	
E-106i 1S/3W-19L1	W. of Redlands; 700 feet S. of Lugonia Ave., 60 feet W. of Bryn Mawr Ave. Owner: Mission Mutual Water Co., well No. 1. Casing: 14 inches. Perforated 470-550. S.B.Co.F.C.D. sample point No. 555.	1,128	550	10- 9-50[e] 10-11-51[e]	7.7 ---	391 ---	234 ---	0.16 ----	--- ---	168 ---	17 --	23 --	5 6	34 --	8 --	32 --	-- --	37 --	121 ---	
E-106j 1S/3W-19G2	W. of Redlands; 621 feet E. of Bryn Mawr Ave., 941 feet N. of Lugonia Ave. Owner: C.S. Chapman. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 650.	1,134	520	9-24-51[e]	7.5	467	318	0.00	0.5	185	17	33	32	62	10	14	--	13	196	
E-106k 1S/3W-19D2	W. of Redlands; 40 feet N. of Park Ave., 40 feet W. of New Jersey St. Owner: A.G. Patterson. Use: Irrigation. Casing: 14 inches. S.B.Co.F. C.D. sample point No. 471.	1,182	400	4-24-50[e]	7.5	580	346	0.14	---	184	65	29	20	56	10	44	--	34	183	
E-106L 1S/3W-19J2	W. of Redlands; 600 feet S. of Lugonia Ave., 60 feet W. of California St. Owner: Fairbanks Ranch. Use: Irrigation. Perforated 424-430. S.B.Co.F. C.D. sample point No. 432.	1,160	430	11-29-49[e]	8.1	383	269	----	0.6	198	19	29	11	44	8	18	0	22	143	
E-107k 1S/3W-31H1	W. of Redlands; 600 feet W. of California St., 75 feet S. of S.P.R.R. Owner: Bryn Mawr Mutual Water Co., well No. 1. Use: Irrigation. Casing: 18 inches. Perforated 200-348; 354-398. S.B.Co.F.C.D. sample point No. 414.	1,215	554	8- 5-32[a] 10-18-37 8-23-49[e] 12-18-50[e] 11- 3-53	--- --- 8.0 7.0 8.0	785 837 816 822 735	--- --- 491 510 414	0.01 0.02 ---- 0.04 0.06	--- --- 0.5 0.3 0.8	336 353 327 324 254	39 49 50 42 47	60 62 64 63 72	27 39 43 33 41	58 64 62 65 33	24 26 23 23 24	83 85 84 82 88	-- -- -- -- 2	43 41 42 41 --	243[b] 267[b] 251 256 180[b]	
E-107m 1S/3W-30Q1	NW. of Redlands; 975 feet N. and 1,350 feet W. of intersection of Cottonwood Row and California St., SE. corner of reservoir. Owner: M.I. Fr[illegible]. Use: Irrigation. Casing: 14 inches. S.B. Co.F.C.D. sample point No. 540.	1,174	200	10- 9-50[e] 8- 6-52[e]	7.4 7.4	845 717	530 435	0.08 0.04	0.5 0.8	307 268	47 51	67 45	56 37	70 53	30 28	67 64	-- 3	33 36	299 248	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 21°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-109q 1S/3W-21A3	W. of Redlands; 60 feet E. of Whittier Rd., 75 feet S. of S.P.R.R. Owner: Bryn Mawr Mutual Water Co., well No. 2. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 413.	1,204	472	8-22-49[e]	8.2	968	605	----	0.5	354	53	95	92	72	30	93	--	40	302	
E-109e 1S/3W-17L1	W. of Redlands; 60 feet W. of Nevada St., 80 feet N. of Olive Ave. Owner: J.D. Langford. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 469.	1,189	188	4-24-50[e] 11- 2-53	7.3 7.9	676 701	498 459	0.04 0.02	0.5 0.7	205 198	18 15	74 84	96 95	93 93	14 17	19 22	-- 3	12 --	291 302[b]	
E-109f 1S/3W-17C2	NW. of Redlands; 1,700 feet N. of Palmetto Ave., 300 feet W. of Nevada St., 50 feet S. of top of bluff. Owner: Daniels and Best. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 427.	1,176	110	11-28-49[e] 4-24-50[e] 11- 2-53	7.9 7.3 8.3	864 837 781	597 589 550	---- 0.10 0.08	0.4 0.3 0.3	271 264 307	21 21 14	93 81 78	133 129 89	108 101 110	23 21 21	16 33 34	-- -- 4	9 17 --	364 338 361[b]	CO_3 = 2 ppm.
E-109h 1S/3W-16L2	NW. of Redlands; 20 feet W. of Tennessee Ave., 100 feet N. of Olive Ave. Owner: Tennessee Mutual Water Co. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 610.	1,269	430	4-23-51[e] 11-10-53[e]	7.5 8.0	370 349	234 211	0.00 0.00	0.3 0.4	161 146	9 6	16 27	37 27	46 43	10 10	10 11	-- 2	12 14	156 147	
E-109i 1S/3W-17H1	NW. of Redlands; 30 feet N. of Palmetto Ave., 50 feet W. of Alabama Ave. Owner: Langford DeHart, DeHart well. Use: Irrigation. Casing: 18 inches. Perforated 79-209.	1,220	220	8- 5-32[a] 6-16-47 9-24-51[e] 6-17-53	--- --- 7.5 ---	413 548 662 660	--- --- 532 ---	0.03 0.60 0.00 ----	--- --- 0.2 ---	183 184 183 195	9 13 16 14	29 59 76 68	22 89 98 83	56 77 94 87	11 14 17 6	14 43 10 22	-- -- -- --	15 28 7 17	185[b] 249[b] 304 243[b]	
E-109L 1S/3W-17H3	NW. of Redlands; 146 feet N. of Palmetto Ave., 1,304 feet W. of Alabama Ave. Owner: Armstrong Ranch. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 653.	1,203	200	9-24-51[e]	7.3	670	505	0.00	0.3	190	19	38	91	94	16	11	--	7	300	
E-109n 1S/3W-16L4	NW. of Redlands; 30 feet W. of Buckeye St., 50 feet N. of Pioneer Ave. Owner: New England Water Co. Use: Irrigation. Casing: 18 inches. S.B.Co.F.C.D. sample point No. 428.	1,255	120	11-28-49[e] 12-18-50[e] 4-23-51[e] 8- 6-52[e]	7.9 7.0 7.6 7.5	654 576 591 508	425 404 359 344	---- 0.08 0.03 0.01	0.3 0.2 0.3 0.6	183 176 181 176	16 6 12 12	77 36 43 42	105 81 76 57	92 76 74 72	15 14 12 13	4 15 10 14	-- -- -- 3	3 12 9 11	293 246 235 233	
E-109o 1S/3W-21C1	NW. of Redlands; 1,600 feet E. of Alabama Ave., 150 feet S. of San Bernardino Ave. Owner: I.S. Chapman. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 809.	1,249	167	8- 6-52[e]	7.6	731	552	0.00	0.8	193	21	64	118	104	16	23	4	13	329	
E-110d 1S/3W-17R1	NW. of Redlands; 265 feet N. of San Bernardino Ave., 642 feet W. of Alabama Ave. Owner: H.C. Emm, Fairview well. Use: Irrigation. Casing: 16 inches.	1,215	300	May, 1919[a] 6-16-47 8- 5-52	--- --- 8.5	--- 392 660	--- --- ---	---- 0.50 0.17	--- --- ---	177 184 220	12 6 14	22 32 44	2 35 65	48 58 72	7 9 14	18 17 22	-- -- --	21 17 17	149[b] 182[b] 237[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (E.C.x10⁶ at 25°C.)	Total dissolved solids in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-110g 1S/3W-21E6	NW. of Redlands; 90 feet S. of Lugonia Ave., 1,340 feet E. of Alabama Ave. Owner: H.L. Fussell. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 689.	1,240	---	9-24-51[e]	7.9	587	452	0.00	0.5	193	19	48	71	79	14	16	--	12	256	
				8- 7-52[e]	7.6	495	323	0.00	0.8	198	14	32	47	66	12	16	2	13	216	
E-110h 1S/3W-21E1	NW. of Redlands; 50 feet N. of Lugonia Ave., 0.2 mile E. of Alabama Ave. Owner: Champion Bros. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 521.	1,251	150	7-11-50[e]	7.6	508	319	0.07	0.6	193	13	32	57	67	12	15	--	13	216	
				10- 8-51[e]	---	---	---	----	---	---	--	--	45	--	--	--	--	--	---	
E-110j 1S/3W-20R1	NW. of Redlands; 1,320 feet E. of Nevada St., 400 feet N. of Walnut Ave. Owner: Fred Booken. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 426.	1,212	180	11-28-49[e]	7.8	746	544	----	0.4	217	24	82	107	96	20	13	0	8	321	
				4-23-51[e]	7.6	791	532	0.08	0.5	244	25	81	101	100	20	25	--	14	332	
				8- 7-52[e]	7.4	806	524	0.00	0.8	244	29	71	97	103	13	41	3	22	310	
E-110k 1S/3W-20R2	NW. of Redlands; 50 feet W. of Alabama Ave., 800 feet N. of Colton Ave., 468 feet N. of S.P.R.R. Owner: Jewel Water Co. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 656.	1,236	350	9-24-51[e]	7.5	448	279	0.00	0.6	183	23	20	16	50	10	20	--	21	166	
				11- 3-53	7.9	456	276	0.04	1.6	193	20	32	16	49	10	36	2	--	163[b]	
				11-10-53[e]	7.7	454	274	0.01	1.0	188	21	32	18	50	10	33	2	30	168	
E-110n 1S/3W-20A1	NW. of Redlands; 200 feet N. of Almond St., 50 feet W. of Alabama St. Owner: W.H. Pettit. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 655.	1,229	195	9-24-51[e]	7.5	666	512	0.00	0.4	205	19	49	95	95	15	16	--	11	296	
				11-10-53[e]	7.6	723	470	0.05	0.6	215	18	75	106	99	18	23	3	13	322	
E-110p 1S/3W-20F1	NW. of Redlands; 265 feet N. of Lugonia Ave., [illegible] feet W. of Nevada St. Owner: A.P. Crim. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 520.	1,192	360	7-11-50[e]	7.6	465	297	0.15	0.6	188	18	29	37	62	9	17	--	16	191	
				4-23-51[e]	7.7	532	291	0.00	---	195	20	27	44	63	11	18	--	16	202	
				10- 8-51[e]	---	---	---	----	---	---	---	--	40	--	--	--	--	--	---	
E-110s 1S/3W-28C1	NW. of Redlands; 150 feet W. of Tennessee St., 35 feet N. of U.S. Highway No. 70/99, 50 feet S. of A.T.&S.F. R.R. Owner: W.J. Grant and Associates. Casing: [illegible] inches. Perforated [illegible]; 194-[illegible]; [illegible]. S.B.Co.F.C.D.	1,270	309	9-14-50[e]	7.8	517	320	0.04	---	331	31	34	25	68	12	33	--	25	219	
				10- 8-51[e]	---	---	---	----	---	---	--	--	23	--	--	--	--	--	---	
E-110t 1S/3W-20F1	W. of Redlands; 50 feet W. of Nevada St., [illegible] feet S. of A.T.&S.F. R.R. Owner: Leigh Wickerson. Use: Irrigation. Casing: 20 inches. Perforated 294-298; 313-333; 366-454. S.B.Co.F.C.D. sample point No. 519.	1,188	467	8- 5-32[a]	---	442	---	0.01	---	177	27	25	9	56	11	21	--	20	185[b]	
				6-16-47	---	413	---	0.40	---	187	27	28	11	53	12	26	--	24	181[b]	
				7-11-50[e]	7.6	465	287	0.14	0.6	198	27	24	21	59	10	20	--	19	190	
				12-18-50[e]	7.1	466	322	0.11	0.4	188	21	23	22	58	10	24	--	21	188	
				10- 8-51[e]	---	---	---	----	---	---	--	44	--	--	--	--	--	--	---	
				8- 5-52	8.1	470	---	0.12	---	207	25	25	22	58	9	28	--	25	182[b]	
				9-23-53[f]	8.1	471	294	0.10	0.3	192	30	27	22	59	9	27	2	--	185[b]	
E-110u 1S/3W-[illegible]	NW. of Redlands; 50 feet W. of Nevada St., 50 feet N. of Almond St. Owner: A.P. Crim. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 468.	1,192	640	4-24-50[e]	7.4	500	327	0.08	0.6	200	13	47	41	63	10	18	--	16	201	
				4-23-51[e]	7.6	548	332	0.08	0.5	202	16	27	53	72	12	18	--	15	230	
				10- 8-51[e]	---	---	---	----	---	---	--	--	46	--	--	--	--	--	---	
E-110x 1S/3W-21E5	NW. of Redlands; 30 feet S. of Almond St., 30 feet E. of Alabama St. Owner: Christina Water Co. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 556.	1,235	325	10- 9-50[e]	7.8	419	250	0.15	0.5	181	9	17	27	54	9	15	--	16	172	
				10- 9-51[e]	---	---	---	----	---	---	--	--	35	--	--	--	--	--	---	
				11-10-53[e]	7.9	452	271	0.00	0.8	188	9	38	33	62	10	17	--	16	194	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-110y 1S/3W-20H2	NW. of Redlands; 600 feet N. of Lugonia Ave., 30 feet W. of Alabama St. Owner: Gladysta Well and Water Co. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 425.	1,262	290	11-28-49[e] 11- 3-53	7.8 8.1	521 542	362 352	---- 0.02	--- 0.8	190 161	18 14	40 60	56 64	67 66	13 13	11 23	-- 2	10 --	219 218[b]	
E-110bb 1S/3W-17K2	NW. of Redlands; 900 feet W. of Alabama St., 150 feet N. of San Bernardino Ave. S.B.Co.F.C.D. sample point No. 808.	1,240	---	8- 6-52[e]	7.5	490	326	0.00	0.8	135	13	36	50	67	13	18	2	15	220	
E-111c 1S/3W-20R1	W. of Redlands; 50 feet W. of Alabama St., 200 feet N. of US. Highway No. 70/99, 42 feet S. of A.T.&S.F. R.R. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 660.	1,264	330	9-24-51[e] 11-10-53[e]	7.9 7.7	501 520	330 312	0.00 0.04	0.5 0.8	203 212	30 26	14 34	25 30	61 62	12 15	16 26	-- 2	15 20	200 217	
E-111f 1S/3W-32G4	SW. of Redlands; 50 feet W. of Nevada St., 150 feet S. of San Timoteo Rd. Owner: J.S. Smith. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 621.	1,240	140	4-24-51[e] 10-11-51[e]	7.4 ---	895 ---	491 ---	0.00 ----	0.6 ---	281 ---	55 --	51 --	48 44	66 --	24 --	70 --	-- --	36 --	265 ---	
E-111g 1S/3W-32G1	SW. of Redlands; 300 feet N. of San Timoteo Rd., 1,250 E. of Nevada St. Owner: [illegible] Field. Use: Irrigation. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 622.	1,246	500	4-24-51[e] 10-11-51[e]	7.5 ---	664 ---	367 ---	0.00 ----	0.5 ---	288 ---	35 --	19 --	12 11	45 --	20 --	59 --	-- --	40 --	193 ---	
E-111k 1S/3W-33C1	SW. of Redlands; NE. corner of Lakeside Ave. and Magnolia Ave., 350 feet S. of Brookside Ave. Owner: Fellows, et al., Lakeside well. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 616.	1,308	462	4-24-51[e] 11- 3-53	7.5 7.9	750 637	434 353	0.00 0.06	0.4 0.7	242 195	66 60	26 40	47 37	67 51	18 15	53 55	-- 3	32 --	240 190[b]	
E-111m 1S/3W-28L1	W. of Redlands; 0.15 mile E. of Kansas St., 75 feet S. of Citrus Ave. Owner: Tom Casey. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 984.	1,256	292	11-10-53[e]	7.7	666	399	0.00	0.6	234	48	44	39	67	17	44	2	28	238	
E-111p 1S/3W-32K1	SW. of Redlands; 30 feet E. of edge of Nevada St., produced, 500 feet N. of Beaumont Ave. Owner: S. Wesley Brake. Use: Irrigation. Casing: 16 inches. Perforated 117-279; 295-403; 409-427. S.B.Co.F.C.D. sample point No. 623.	1,251	440	4-24-51[e] 11- 3-53	7.5 8.0	730 588	405 294	0.00 0.08	0.5 0.8	298 242	43 38	38 42	14 14	52 41	20 19	58 60	-- 2	37 --	211 180[b]	
E-111r 1S/3W-29K2	W. of Redlands; 100 feet S. of Citrus Ave., 0.15 mile E. of Nevada St. Owner: J.L. Yount. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 541.	1,206	390	10- 9-50[e] 10- 8-51[e]	7.6 ---	539 ---	320 ---	0.05 ----	0.6 ---	183 ---	51 --	28 --	14 12	45 --	10 --	40 --	-- --	36 --	156 ---	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 21°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-111t 1S/3W-[illegible]	W. of Redlands; 60 feet S. of Park Ave., 0.15 mile W. of Alabama St. Owner: Weeks Mutual Water Co. Use: Irrigation. Casing: 16 inches. S.B. Co.P.C.D. sample point No. 542.	1,222	297	10- 9-50[e] 10- 8-51[e] 11-10-53[e] 4-[illegible]-54[e]	7.5 --- 7.7 7.8	662 --- 713 689	444 --- 423 426	0.05 ---- 0.03 0.12	0.3 --- 0.4 0.6	242 --- 234 232	35 -- 45 40	39 -- 58 63	50 25 [illegible] 54	87 -- 93 96	16 -- 16 15	24 -- 27 [illegible]	-- -- 3 4	16 -- 16 17	284 --- 300 301	
E-111u 1S/3W-[illegible]	W. of Redlands; 40 feet W. of Kansas St., 280 feet S. of Park Ave. Owner: Kansas Street Water Co. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 535.	1,249	342	9-14-50[e] 11- 3-53 11-10-53[e]	7.9 8.3 7.7	594 600 626	364 357 354	---- 0.04 0.03	0.6 1.0 1.0	200 156 200	66 60 61	35 36 36	26 24 29	66 61 67	12 13 13	48 40 42	-- 3 2	33 -- 29	213 205[b] 224	CO_3 = 12 ppm.
E-111w 1S/3W-[illegible]	W. of Redlands; 600 feet E. of Alabama St., 120 feet S. of Citrus Ave. Owner: Hoover and Dean. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 615.	1,237	304	4-24-51[e] 11- 3-53	7.7 8.1	634 606	365 336	0.04 0.06	0.8 1.4	195 188	69 63	16 35	33 26	58 58	12 10	46 50	-- 3	34 --	195 186[b]	
E-111x 1S/3W-[illegible]	W. of Redlands; 0.25 mile S. of U.S. Highway No. 70/99, 50 feet W. of Alabama St. S.B.Co.P.C.D. sample point No. 657.	1,231	---	9-24-51[e]	7.6	509	334	0.00	0.5	207	32	22	21	63	12	18	--	16	208	
E-111bb 1S/3W-[illegible]	NW. of Redlands; 600 feet W. of Alabama St., 60 feet S. of Citrus Ave. Owner: A. Hentscheko. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 534.	1,240	242	9-14-50[e] 10- 9-51[e]	7.7 ---	645 ---	412 ---	0.04 ----	0.2 ---	267 ---	43 --	46 --	38 37	74 --	14 --	48 --	-- --	30 --	243 ---	Now destroyed.
E-111dd 1S/3W-[illegible]	W. of Redlands; 650 feet W. of Alabama St., 60 feet S. of Citrus Ave. Owner: Pharoah and Powell. Casing: 10 inches. S.B.Co.P.C.D. sample point No. 982.	1,222	660	10-22-53[e]	7.5	759	480	0.00	0.6	268	42	61	68	86	20	44	3	24	294	
E-112t 1S/3W-[illegible]	SW. of Redlands; E. side of Terracina Ave., 660 feet N. of Olive St. Owner: Dr. A. B. Lee. Use: Irrigation. Casing: 16 inches. Perforated 245-318; 365-383; 397-430; 456-477; 520-580. S.B.Co.F.C.D. sample point No. 617.	1,370	665	4-24-51[e]	7.5	656	358	0.00	0.6	244	51	14	22	43	18	56	--	41	179	
E-113 1S/3W-16A1	NW. of Redlands; 2,663 feet N. of Pioneer Ave., 40 feet W. of Texas St. Casing: 20 inches. S.B.Co.P.C.D. sample point No. 658.	1,292	185	9-24-51[e] 11-10-53[e]	7.8 7.6	229 254	145 140	0.00 0.00	0.2 0.5	117 127	9 6	12 22	Tr. 2	27 27	5 7	8 15	-- 2	11 25	90 96	
E-113a 1S/3W-16J1	NW. of Redlands; 20 feet N. of Pioneer Ave., 0.12 mile W. of Texas St. Owner: Williams Corp., Ltd. Use: Irrigation. Casing: 20 inches. Perforated 158-388. S.B.Co.F.C.D. sample point No. 430.	1,303	400	11-28-49[e] 12-18-50[e] 11- 2-53[f] 11-10-53[e]	7.8 7.1 7.9 7.8	373 403 343 355	268 260 185 202	---- 0.10 0.30 0.00	0.2 0.2 0.4 0.5	146 154 134 142	9 2 10 7	25 30 25 28	33 45 30 31	47 55 45 43	10 10 8 9	2 12 12 12	0 -- 2 2	3 13 -- 16	158 179 145[b] 145	
E-113b 1S/3W-19N3	NW. of Redlands; 100 feet N. of Pioneer Ave., 30 feet W. of Webster St. Owner: Arth, Beeler, Markam, et al. Use: Irrigation. Casing: 20 inches. Perforated 181-382. S.B.Co.P.C.D. sample point No. 552.	1,336	396	10- 9-50[e] 11- 2-53[f] 11-10-53[e]	7.7 8.2 7.8	384 312 336	216 187 194	0.04 0.15 0.00	0.4 0.4 0.5	151 138 144	8 11 5	19 23 29	35 22 25	50 45 40	11 8 10	9 12 12	-- 2 2	11 -- 15	170 145[b] 143	CO_3 = Trace.
E-113f 1S/3W-19M1	NW. of Redlands; NW. corner of Webster St. and Dreka St., 600 feet N. of San Bernardino Ave. Owner: Redlands Heights Groves, Inc. Use: Irrigation. Casing: 20 inches. Perforated 128-220; 230-249. S.B.Co.P.C.D. sample point No. 4[illegible].	1,337	271	10- 8-51[e] 8- 6-52[e]	--- 7.5	--- 574	--- 398	---- 0.00	--- 0.5	--- 176	-- 11	-- 49	80 83	-- 75	-- 20	-- 15	-- 4	-- 11	--- 267	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
L-113h 1S/3W-16K1	NW. of Redlands; 50 feet N. of Pioneer Ave., 660 feet E. of Tennessee St. Owner: Tennessee Mutual Water Co. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 611.	1,283	351	10-18-37	7.3	292	---	0.12	---	142	8	18	12	37	7	16	--	22	121[b]	
				4-24-51[e]	7.4	473	264	0.00	0.2	166	10	15	54	50	14	11	--	12	183	
				10- 9-51[e]	---	---	---	----	---	---	--	--	32	--	--	--	--	--	---	
				6-17-53	7.8	420	---	0.01	---	159	9	32	37	52	12	17	--	16	179[b]	
E-114e 1S/3W-27E2	SW. of Redlands; 50 feet E. of Texas St., 75 feet N. of S.P.R.R., N. of Central Ave. Owner: City of Redlands. Use: Irrigation. Casing: 20 inches. Perforated 150-365. S.B.Co.F.C.D. sample point No. 537.	1,311	400	9-14-50[e]	7.8	518	335	0.00	0.6	228	32	34	28	52	11	38	--	29	201	
E-114f 1S/3W-21H3	NW. of Redlands; 200 feet N. of Lugonia Ave., 180 feet W. of Texas St. Owner: City of Redlands, Texas St. Plant No. 1, well No. 30. Use: Municipal. Casing: 18 inches. Perforated 80-120; 140-237. S.B.Co.F.C.D. sample point No. 522.	1,313	237	8- 4-32[a]	---	446	---	0.04	---	186	11	32	22	58	11	17	--	17	190[b]	
				12-15-47	---	526	---	0.20	---	201	12	62	106	79	15	38	--	24	260[b]	
				7-11-50[e]	7.5	625	429	0.14	0.6	210	13	48	80	84	15	17	--	12	270	
				8- 1-52	8.1	510	---	0.12	---	214	9	44	54	70	12	21	--	17	224[b]	Abandoned, 8-7-52.
E-114g 1S/3W-21H2	NW. of Redlands; 400 feet N. of Lugonia Ave., 125 feet W. of Texas St. Owner: City of Redlands, well No. 31. Use: Municipal. Casing: 18 inches. S.B.Co.F.C.D. sample point No. 811.	1,317	233	8- 7-52[e]	7.6	516	332	0.01	0.8	198	12	31	54	71	13	16	2	12	233	
E-114i 1S/3W-28K1	Redlands; 150 feet W. of Texas St., 50 feet S. of S.P.R.R. Owner: City of Redlands, well No. 41. Use: Municipal. Casing: 20 inches. Perforated 150-442. S.B.Co.F.C.D. sample point No. 536.	1,300	474	8- 4-32[a]	---	456	---	0.13	---	168	28	38	9	52	11	29	--	26	175[b]	
				6-13-40	---	430	---	----	---	180	32	16	14	53	12	21	--	19	181[b]	
				11-14-46	---	355	---	0.40	---	149	18	29	8	38	8	33	--	36	128[b]	
				12-15-47	---	476	---	0.30	---	193	24	46	35	56	12	38	--	31	189[b]	
				9-14-50[e]	7.8	459	290	0.00	---	184	29	44	18	45	9	52	--	43	149	
				8- 5-52	8.1	520	---	0.16	---	207	30	24	26	59	11	18	--	17	193[b]	
				6-17-53	8.1	540	---	0.03	---	207	32	33	25	60	13	36	--	28	203[b]	
E-114j 1S/3W-28B1	W. of Redlands; 80 feet N. of Park Ave., 600 feet E. of Tennessee St. Owner: East Barton Water Co. Casing: 16 inches. Perforated 250-283; 350-380. S.B.Co.F.C.D. sample point No. 539.	1,280	412	9-14-50[e]	7.8	493	312	----	0.5	210	36	20	20	55	9	31	--	27	177	
				10- 8-51[e]	---	---	---	----	---	---	--	--	22	--	--	--	--	--	---	
E-114L 1S/3W-22F1	Redlands; 30 feet S. of Pennsylvania Ave., 30 feet W. of Clay St. Owner: Penn Well Co. Use: Irrigation. S.B.Co.F.C.D. sample point No. 523.	1,355	---	7-11-50[e]	7.6	613	424	0.22	0.6	190	12	55	90	85	15	11	--	8	274	
				10- 9-51[e]	---	---	---	----	---	---	--	--	56	--	--	--	--	--	---	
				11-10-53[e]	7.9	533	339	0.00	0.7	188	10	52	63	70	15	16	2	13	236	
E-114o 1S/3W-21K1	Redlands; 30 feet S. of Lugonia Ave., 0.4 mile W. of Texas St. Owner: Lugo Water Co. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 431.	1,293	230	11-28-49[e]	7.8	525	380	----	0.4	198	14	44	63	72	13	4	0	4	234	
				11-10-53[e]	7.7	518	311	0.01	0.6	202	9	42	49	71	11	20	2	16	224	
E-114x 1S/3W-21A1	NW. of Redlands; 0.15 mile S. of San Bernardino Ave., 80 feet W. of Texas St. Owner: Stowe Water Co. Use: Irrigation. Casing: 16 inches. Perforated 150-338. S.B.Co.F.C.D. sample point No. 553.	1,320	350	10- 9-50[e]	7.7	556	363	0.07	0.5	181	11	43	68	72	13	15	--	12	234	
				10- 9-51[e]	---	---	---	----	---	---	--	--	63	--	--	--	--	--	---	
E-115 1S/3W-29D1	W. of Redlands; 60 feet N. of Park Ave., 0.15 mile E. of California St. Owner: V.L. Gregory. Use: Irrigation. Perforated 284-381. S.B.Co.F.C.D. sample point No. 518.	1,173	400	7-11-50[e]	7.6	643	403	0.08	0.4	217	41	46	55	80	15	18	--	13	262	
				10- 8-51[e]	---	---	---	----	---	---	--	--	64	--	--	--	--	--	---	

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-115c 1S/3W-30P4	NW. of Bryn Mawr, 0.25 mile E. of Mountain View Ave., 0.1 mile S. of U.S. Highway No. 70/99. Owner: O.E. Peterson. Use: Domestic (housing project). Casing: 12 inches. S.B.Co.F.C.D. sample point No. 807.	1,126	507	8- 7-53[e]	7.5	806	519	0.04	0.6	285	44	51	69	86	33	29	2	15	350	
E-115e 1S/4W-13G2	SE. of San Bernardino; 0.5 mile E. of Tippecanoe Ave., 150 feet S. of Central Ave., produced. Owner: Gage Canal Co., well No. 46-1. Use: Irrigation. Casing: 24 inches. Perforated 100-345; 357-393. S.B.Co.F.C.D. sample point No. 767.	1,063	415	4-21-52[e] 7-16-53[e]	7.6 7.5	220 272	156 165	0.04 0.03	0.5 0.8	132 139	8 3	10 11	3 8	33 31	7 10	11 10	-- 2	18 15	110 120	
E-119 1S/3W-15H1	N. of Redlands; 350 feet N. of San Bernardino Ave., 50 feet W. of Church St. Owner: North Brae Water Co. Use: Irrigation. Casing: 20 inches. Perforated 184-386. S.B.Co.F.C.D. sample point No. 612.	1,390	400	8- 6-32[a] 10-15-37 11-14-46 4-24-51[e] 9-24-53[f]	--- --- --- 7.6 7.9	384 444 381 515 534	--- --- --- 346 395	0.01 0.08 0.00 0.00 0.00	--- --- --- 0.4 0.6	177 184 177 185 182	7 14 12 10 12	27 33 49 20 52	16 37 38 67 64	54 62 71 70 78	10 11 12 12 10	12 16 14 39 14	-- -- -- -- 3	13 15 12 9 --	176[b] 200[b] 227[b] 225 236[b]	
E-119b 1S/3W-23F1	NE. of Redlands; 30 feet S. of Pennsylvania Ave., 0.45 mile E. of Church St. Owner: Northside Water Co. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 558.	1,442	314	10- 9-50[e]	7.6	495	331	0.12	0.4	195	10	28	54	64	14	13	--	12	215	
E-119c 1S/3W-14F2	NE. of Redlands; 60 feet N. of San Bernardino Ave., 0.48 mile E. of Church St. Owner: San Bernardino Ave. Water Co. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 551.	1,435	350	10- 9-50[e] 10- 9-51[e] 8- 7-52[e] 11- 2-53[f]	7.9 --- 7.6 7.8	401 --- 503 494	288 --- 338 347	0.12 ---- 0.00 0.30	0.5 --- 0.8 0.7	176 --- 181 176	7 -- 11 12	20 -- 32 41	24 42 57 54	52 -- 64 69	11 -- 18 10	16 -- 14 13	-- -- 3 3	16 -- 11 --	175 --- 235 213[b]	
E-119d 1S/3W-22A1	NE. of Redlands; 600 feet S. of San Bernardino Ave., 50 feet W. of Church St. Owner: Church St. Mutual Water Co. Use: Irrigation. Casing: 20 inches. Perforated 200-300. S.B.Co.F.C.D. sample point No. 559.	1,400	314	10-10-50[e] 11-10-53[e]	7.6 8.1	529 547	346 332	0.06 0.00	0.5 0.7	176 195	10 12	30 53	64 64	68 74	13 13	11 17	-- 3	10 13	223 241	
E-119e 1S/3W-14F1	NE. of Redlands; 0.4 mile E. of Church St., 800 feet N. of San Bernardino Ave. Owner: Pioneer Mutual Water Co. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 550.	1,429	450	10- 9-50[e] 10- 9-51[e]	7.8 ---	470 ---	270 ---	0.05 ----	0.4 ---	190 ---	9 --	27 --	45 50	64 --	12 --	15 --	-- --	13 --	210 ---	
E-123a 1S/3W-14H1	NE. of Redlands; 45 feet W. of Judson St., 325 feet N. of San Bernardino Ave. Owner: Naught Mutual Water Co. Use: Irrigation. Casing: 20 inches. Perforated 250-500. S.B.Co.F.C.D. sample point No. 549.	1,460	500	10- 9-50[e] 8- 7-52[e] 11- 2-53[f]	7.6 7.8 7.8	414 419 424	241 266 276	0.08 0.00 0.40	0.5 0.8 0.6	185 188 176	9 8 11	16 14 28	29 34 37	54 60 59	13 12 9	9 12 12	-- 3 3	10 12 --	187 197 185[b]	
E-123c 1S/3W-24A1	NE. of Redlands; 0.25 mile S. of San Bernardino Ave., 0.25 mile E. of Judson St. Owner: Bear Valley Mutual Water Co. Use: Irrigation. Casing: 26 inches. Perforated 250-510. S.B.Co.F.C.D. sample point No. 547.	1,521	578	10- 9-50[e] 8- 7-52[e]	7.7 7.7	405 372	269 235	0.06 0.07	0.5 0.8	190 173	9 10	18 18	22 15	53 49	11 13	11 16	-- 2	12 16	179 167	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 21°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-123d 1S/2W-23A2	NE. of Redlands; 0.25 mile S. of San Bernardino Ave., 60 feet W. of Judson St. Owner: Judson St. Mutual Water Co. Casing: 20 inches. Perforated 280-382; 392-400. S.B.Co.F.C.D. sample point No. 557.	1,496	400	10- 9-50[e] 10- 9-51[e] 8- 7-52[e]	7.6 --- 7.7	407 --- 516	332 --- 337	0.14 ---- 0.00	0.5 --- 0.8	195 --- 190	9 -- 11	20 -- 38	38 50 60	59 -- 65	13 -- 19	12 -- 18	-- -- 3	11 -- 15	201 --- 240	
E-123f 1S/2W-19G1	Mentone; 100 feet E. of Beryl Ave., 300 feet N. of Lugonia Ave. Owner: East Lugonia Mutual Water Co., well No. 5. Use: Domestic and irrigation. Casing: 26 inches. Perforated 116-183.	1,690	318	8- 4-32[a] 6-16-47 3-16-48 7-13-51 8-27-52 6-17-53	--- --- --- 8.0 8.0 7.8	366 374 343 310 330 270	--- --- --- --- --- ---	0.01 0.40 0.00 0.00 0.07 0.02	--- --- --- --- --- ---	174 192 193 159 134 134	9 5 5 4 2 5	30 26 28 27 34 16	11 23 27 2 1 Tr.	56 55 56 42 37 26	13 12 12 10 9 9	12 14 13 10 -- 18	-- -- -- -- -- --	12 14 13 13 -- 27	193[b] 187[b] 189[b] 146[b] 129[b] 102[b]	
E-123g 1S/2W-19D1	Mentone; 60 feet E. of Wabash Ave., 0.25 mile N. of Lugonia Ave. Owner: Bear Valley Mutual Water Co. Use: Irrigation. Casing: 26 inches. Perforated 280-400. S.B.Co.F.C.D. sample point No. 546.	1,608	427	10- 9-50[e] 8- 7-52[e]	7.6 7.5	390 348	228 220	0.04 0.05	0.5 ---	185 159	9 8	15 22	18 19	48 43	12 12	7 16	-- 2	8 19	170 155	
E-123h 1S/3W-23A1	NE. of Redlands; 0.25 mile S. of San Bernardino Ave., 200 feet W. of Judson St. Owner: R. Rees. Use: Irrigation. Casing: 20 inches. Perforated 250-529. S.B.Co.F.C.D. sample point No. 810.	1,400	549	8- 7-52[e]	7.5	478	310	0.00	0.8	195	10	29	44	67	13	14	3	12	223	
E-123m 1S/3W-13P2	NE. of Redlands; 60 feet N. of San Bernardino Ave., 340 feet W. of Granite Ave. Owner: East Pioneer Mutual Well Co. Use: Irrigation. Casing: 20 inches. Perforated 265-488. S.B. Co.F.C.D. sample point No. 434.	1,565	500	12-12-49[e] 11- 2-53[f] 11-10-53[e]	7.8 7.8 7.8	388 420 430	253 232 250	0.00 0.35 0.00	0.6 0.7 0.7	183 178 183	8 11 7	19 32 35	20 32 31	46 60 53	16 9 13	7 13 14	-- 4 3	7 -- 13	180 187[b] 187	
E-123o 1S/3W-24A1	Mentone; 600 feet W. of Wabash Ave., 300 feet S. of Capri St. Owner: Mentone Acres Mutual Water Co. Use: Irrigation. Casing: 20 inches. Perforated 277-405. S.B.Co.F.C.D. sample point No. 613.	1,586	405	4-24-51[e]	7.6	364	213	0.00	0.5	188	8	8	14	47	11	9	--	10	162	
E-123u 1S/3W-13P1	Mentone; 100 feet S. of Pioneer Ave., 0.6 mile E. of Judson St. Owner: Mentone Acres Mutual Water Co. S.B. Co.F.C.D. sample point No. 548.	1,520	400	10- 9-50[e]	7.7	371	219	0.07	0.4	181	7	13	16	48	11	8	--	10	167	
E-127n 1S/2W-19K1	Mentone; 30 feet S. of Mentone (Lugonia) Ave., 0.24 mile W. of Crafton Ave. Owner: Mentone Domestic Water Co. Casing: 4-foot by 6-foot pit to 90 feet, then 20 inches. S.B.Co.F.C. D. sample point No. 435.	1,724	307	12-12-49[e]	6.9	422	282	0.00	0.4	198	10	24	31	54	20	4	--	3	215	
E-127f 1S/2W-21E1	E. of Mentone; 1,000 feet N. of Lugonia (Mentone) Ave., 50 feet W. of Greenspot Rd. Owner: McIntosh Estate, well No. 2. Use: Domestic and irrigation. Casing: 12 inches.	2,017	207	8- 4-32[a] 6-16-47 8-27-52 9-24-53[f]	--- --- 8.3 7.9	404 308 310 374	--- --- --- 208	0.03 0.10 0.02 0.10	--- --- --- 0.6	210 182 140 187	7 2 2 8	27 23 34 24	7 2 1 8	57 46 37 53	15 10 8 9	10 11 8 11	-- -- -- 3	10 13 12 --	210[b] 156[b] 125[b] 169[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC_x10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-127c 1S/2W-19J1	Mentone; 300 feet S. of Mentone (Lugonia) Ave., 60 feet W. of Crafton Ave. Owner: Jack Reece. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 545.	1,760	233	10- 9-50	7.6	379	260	0.04	0.4	185	9	17	10	48	12	11	--	12	171	
E-130h 1S/4W-23D2	SE. of San Bernardino; 1,042 feet E. of Waterman Ave., 459 feet S. of Dumas St. Owner: Meadowbrook Dairy. Use: Irrigation. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 971.	1,018	744	10-14-53[c]	8.1	351	221	0.30	1.3	146	22	22	2	25	7	38	2	47	91[b]	
E-131f 1S/2W-16F1	NE. of Mentone; 2,100 feet N. of Newport Ave., 1,200 feet E. of Garnet St. Owner: Greenspot Mutual Well Co. Use: Irrigation. Casing: 16 inches. Perforated 90-147.	2,071	160	8- 4-32[a]	---	342	---	0.03	---	162	11	21	7	47	11	11	--	12	163[b]	
				6-17-47	---	465	---	0.30	---	219	13	35	43	72	15	17	--	14	242[b]	
				8-27-52	---	710	---	0.03	---	232	11	39	17	71	14	15	--	12	235[b]	
				6-17-53	---	520	---	0.04	---	214	11	36	31	73	16	14	--	11	248[b]	
E-134a 1S/2W-14K1	NE. of Mentone; 2,350 feet N. and 2,250 feet E. of SW. corner, Sec. 14, T. 1 S., R. 2 W., S.B.B.&M. Owner: East Highlands Domestic Water Co., Sunrise Ranch well No. 1. Use: Irrigation. Casing: 20 inches.	2,580	922	8- 4-32[a]	---	335	---	0.07	---	165	2	32	1	42	11	12	--	15	150[b]	
				11-30-48	---	360	---	0.00	---	209	5	38	2	52	12	23	--	22	179[b]	
				7-11-51	7.9	440	---	0.00	---	220	2	47	2	53	13	20	--	19	185[b]	
				8-27-52	8.0	440	---	0.04	---	202	4	38	2	44	11	27	--	26	155[b]	
				6-17-53	7.9	420	---	0.03	---	207	7	14	1	48	14	24	--	23	177[b]	
E-134f 1S/2W-13F1	NE. of Mentone; 1,500 feet S. and 1,650 feet E. of NW. corner, Sec. 13, T. 1 S., R. 2 W., S.B.B.&M., on N. bank of Mill Creek. Owner: East Highlands Domestic Water Co. Use: Irrigation.	-----	54	10-18-37	---	305	---	0.06	---	163	7	24	3	41	10	35	--	15	143[b]	
				11-30-48	---	377	---	0.00	---	218	4	49	Tr.	58	15	15	--	14	207[b]	
				7-13-51	8.0	440	---	0.02	---	220	7	21	2	55	12	23	--	21	187[b]	
E-400a 1S/4W-14P6	SE. of San Bernardino; 660 feet S. of Santa Fe St., 175 feet W. of Valley View Ave. Owner: Donnelly. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 910.	1,032	125	4- 9-53[c]	7.4	536	302	0.05	0.5	239	18	66	0	66	14	28	4	21	222	
E-443b 1N/3W-19M2	NE. of San Bernardino; 0.35 mile NW. along Foothill Dr. from Orange St., then 75 feet N. of Foothill Dr. Owner: M.C. York. Use: Irrigation. Casing: 14 inches. Perforated 315-375.	1,455	375	1- 4-49	8.1	364	---	0.15	---	115	15	44	46	36	13	35	--	--	143[b]	
				7- 2-53	7.9	370	---	0.20	---	122	11	31	2	27	12	31	--	37	157[b]	
E-443c 1N/3W-19M3	NE. of San Bernardino; 0.15 mile SE. along Foothill Dr. from Sterling Ave., then 200 feet NE. of Foothill Dr., 25 feet NE. of NE. corner of reservoir. Owner: C.M. Hadley, M.D. Use: Domestic.	1,455	---	1- 4-49	8.0	448	---	1.65	---	106	17	106	20	18	7	86	--	72	74[b]	
				7- 2-53	7.3	580	---	0.75	---	116	20	87	34	46	14	55	--	43	172[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10[6] at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-443d 1N/4W-25C1	NE. of San Bernardino; 50 feet S. of Lemon St., 120 feet E. of Mountain Ave. Owner: Pioneer Gardens Water Co. Use: Domestic. Casing: 12 inches. Perforated 253-255; 261-274; 278-280; 297-310; 338-355; 360-405. S.B.Co.F.C.D. sample point No. 459.	1,244	405	1- 4-49 4- 4-50[e]	7.5 7.1	541 697	--- 475	0.70 0.88	--- 0.9	158 354	23 25	128 121	22 46	46 57	12 13	74 79	-- --	50 47	164[b] 198	
E-443e 1N/4W-36G6	NE. of San Bernardino; 27 feet S. of 19th St., 500 feet E. of Del Rosa Ave. Owner: A.H. Smithson. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 463.	1,160	100	4- 5-51[e] 4- 7-53[e]	7.0 7.2	600 595	403 398	0.62 0.26	0.7 2.0	162 178	40 29	84 71	35 41	53 52	14 16	55 56	-- 2	38 38	191 193	
E-444 1N/4W-25F3	NE. of San Bernardino; 0.21 mile W. of Del Rosa Ave., 690 feet N. of Date St. Owner: Lyman Rich. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 457.	1,215	325	4- 4-50[e] 4- 7-53[e]	7.0 7.2	551 563	379 374	0.64 0.28	0.8 2.2	162 149	19 20	79 76	44 44	48 38	11 13	62 52	-- 2	45 43	166 147	
E-445e 1N/4W-36G5	NE. of San Bernardino; 1,050 feet N. of Pacific St., 160 feet E. of Del Rosa Ave. Owner: L.C. Quick. Use: Domestic. Casing: 10 inches. S.B.Co. F.C.D. sample point No. 464.	1,147	139	4- 5-50[e] 4- 7-53[e]	7.2 7.3	722 675	480 456	0.30 0.19	0.8 2.4	215 207	24 23	90 57	71 68	60 55	20 19	68 64	-- 2	39 39	230 212	
E-447L 1S/4W- 1H4	NE. of San Bernardino; 150 feet W. of Sterling Ave., 528 feet N. of 9th St. Owner: Russell Worley. S.B.Co.F.C.D. sample point No. 950.	1,106	---	7-30-53[e]	7.1	591	414	0.13	0.8	190	26	95	10	60	16	38	2	28	219	
E-450j 1N/3W-31Q8	NE. of San Bernardino; 0.6 mile E. of Sterling Ave., 430 feet N. of Base Line Ave., 50 feet W. of laundry office. Owner: Base Line Laundry. Use: Industrial and domestic. Casing: 12 inches. Perforated 189-197; 208-211; 220-228. S.B.Co.F.C.D. sample point No. 667.	1,125	280	11-27-51[e] 2-25-53[e]	7.5 7.5	560 583	379 383	0.09 0.10	1.1 2.8	175 181	23 22	52 44	63 68	17 15	3 7	97 105	-- 2	78 78	56 64	
E-453c 1N/3W-31R4	NE. of San Bernardino; 710 feet N. of Base Line Ave., 0.25 mile W. of Victoria St. Owner: Brennan. Use: Not used. Casing: 10 inches. S.B.Co.F. C.D. sample point No. 113.	1,132	185	12-29-44[e] 1-30-45[e]	7.2 7.9	509 513	341 361	0.20 0.19	--- ---	102 118	35 34	93 85	19 4	15 18	2 1	100 99	-- --	83 81	45 49	Well dry, 2-26-53.
E-495L 1S/4W-22B6	SE. of San Bernardino; 730 feet S. of Dumas St., 185 feet E. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 9. Use: Domestic and irrigation. Casing: 12 inches.	1,001	302	11-27-53[h]	---	339	---	----	---	177	14	12	Tr.	47	1	26	--	32	122[b]	
E-495m 1S/4W-22B7	SE. of San Bernardino; 1,175 feet S. of Dumas St., 120 feet W. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 10. Use: Domestic and irrigation. Casing: 14 inches. Perforated 79-125; 132-145; 167-172; 191-196.	1,002	203	11-27-53[h]	---	282	---	----	---	146	11	11	--	38	4	16	--	24	111[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
E-495n 1S/4W-22G17	SE. of San Bernardino; 1,675 feet S. of Dumas St., 445 feet W. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 7. Use: Domestic and irrigation. Casing: 14 inches. Perforated 80-124; 138-154; 182-190; 205-217.	985	224	11-27-53[h]	---	308	---	----	---	153	18	16	Tr.	41	3	24	--	31	114[b]	
E-495o 1S/4W-22G19	SE. of San Bernardino; 1,775 feet S. of Dumas St., 595 feet W. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 8. Use: Domestic and irrigation. Casing: 14 inches. Perforated 80-100; 104-120; 134-154.	985	250	11-27-53[h]	---	315	---	----	---	153	11	22	Tr.	45	2	19	--	26	120[b]	
E-495p 1S/4W-22G16	SE. of San Bernardino; 1,925 feet S. of Dumas St., 495 feet W. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 5. Use: Domestic and irrigation. Casing: 14 inches. Perforated 96-130; 140-192.	980	188	11-27-53[h]	---	326	---	----	---	156	18	20	Tr.	40	3	28	--	35	112[b]	
E-495q 1S/4W-22G18	SE. of San Bernardino; 1,945 feet S. of Dumas St., 545 feet W. of Washington Ave., produced. Owner: Riverside Water Co., Thorn Tract well No. 6. Use: Domestic and irrigation. Casing: 14 inches. Perforated 74-92; 98-106; 114-124; 138-154; 202-214; 218-228.	980	238	11-27-53[h]	---	316	---	----	---	159	14	16	Tr.	41	3	24	--	31	114[b]	
E-497u 1S/4W-11E13	SE. of San Bernardino; 800 feet E. of Waterman Ave., 400 feet S. of Cardiff Ave. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 669.	1,009	---	11-27-51[e] 2-23-53[e]	7.5 7.3	580 660	392 422	0.06 0.13	0.1 0.3	210 220	26 27	91 103	6 6	74 79	14 16	27 34	-- 4	19 22	241 258	
E-498e 1S/4W-26H1	SE. of San Bernardino; 1,170 feet W. of Tippecanoe Ave., 950 feet N. of S.P.R.R. Owner: Gage Canal Co., well No. 51-1. Use: Irrigation. Casing: 10¼ inches. S.B.Co.F.C.D. sample point No. 693.	1,063	190	1-16-52[e]	7.4	260	167	0.00	0.3	128	8	14	2	28	3	22	--	38	80	
E-498k 1S/4W-23A2	SE. of San Bernardino; 1,350 feet W. of Tippecanoe Ave., 330 feet N. of A.T.&S.F. R.R. Owner: Gage Canal Co., well No. 26-1. Use: Irrigation. S.B. Co.F.C.D. sample point No. 694.	1,040	---	1-16-52[e]	7.4	520	341	0.00	0.5	203	17	44	30	64	13	28	--	22	213	
E-498L 1S/4W-23A1	E. of San Bernardino; 1,050 feet W. of Tippecanoe Ave., 1,040 feet N. of A.T.&S.F. R.R. Owner: Gage Canal Co., Sandbox well. Use: Irrigation. S.B. Co.F.C.D. sample point No. 695.	1,010	700	1-16-52[e]	7.8	270	170	0.00	0.3	140	6	12	3	31	4	21	--	32	95	
E-501 1S/4W-13N3	SE. of San Bernardino; 0.15 mile E. of Tippecanoe Ave., 30 feet N. of Gage Canal. Owner: Gage Canal Co., well No. 29-3. Use: Irrigation. Casing: 24 inches. Perforated 117-264. S.B. Co.F.C.D. sample point No. 947.	1,050	297	7-16-53[e]	7.4	558	381	0.17	0.8	210	33	43	52	71	16	26	3	19	246	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC×10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						BUNKER HILL BASIN - (continued)														
D-[illegible]b 1N/4W-13N4	SE. of San Bernardino; 700 feet E. of Tippecanoe Ave., 1,000 feet N. of San Bernardino Ave. Owner: Gage Canal Co., well No. 6. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 467.	1,045	300	4-24-50[e]	7.5	445	282	0.10	0.2	166	13	37	42	56	11	14	--	14	184	
				1-16-52[e]	7.5	510	347	0.00	0.1	179	16	31	58	70	13	17	--	14	226	
				4-21-52[e]	7.5	410	311	0.00	0.3	171	15	42	44	62	10	15	--	15	196	
						CAJALCO VALLEY BASIN														
E-316f 4S/5W- 5D1	N. of Lake Matthews; 200 feet S. and 10 feet E. of NW. corner Sec. 5, T. 4S., R. 5 W., S.B.B. & M. Owner: Milton Knapp. Use: Irrigation.	1,320	85	2-20-51	8.0	1,380	---	0.09	---	220	174	303	171	132	55	120	--	32	556[b]	
E-317c 4S/5W-17F1	S. of Riverside; 300 feet S. and 1,045 feet E. of NE. corner of SW¼ of SW¼ of Sec. 17, T. 4 S., R. 5 W., S.B.B.&M. in Cajalco Canyon. Owner: Mrs. William Marder, well No. 1. Use: Irrigation.	1,482	60	Sept., 1926[a]	---	---	---	----	---	160	64	---	---	---	--	---	--	--	---	
				7-31-47	---	481	---	----	---	153	50	31	Tr.	32	10	50	--	47	121[b]	
E-317d 4S/5W-17F2	S. of Riverside; 250 feet S. and 345 feet E. of NE. corner of SW¼ of SW¼ Sec. 17, T. 4 S., R. 5 W., S.B.B.&M. in Cajalco Canyon. Owner: Mrs. William Marder, well No. 2. Use: Domestic and irrigation.	1,485	47	Mar., 1928[a]	---	---	---	----	---	164	35	--	---	--	--	--	--	--	---	
				7-31-47	---	527	---	0.10	---	168	56	21	25	40	10	52	--	44	141[b]	
E-337 4S/4W- 7K1	S. of Riverside; 700 feet S. and 200 feet W. of the center of Section 7, T. 4 S., R. 4W., S.B.B. & M. in Cajalco Canyon. Owner: Winsor and Mosgrove. Use: Domestic and irrigation.	1,560	---	4- 3-33[a]	---	2,120	---	0.08	---	262	475	136	27	175	50	193	--	40	643[b]	
				7-31-47	---	290	---	----	---	105	27	16	0	16	8	29	--	46	73[b]	
						LOWER CAJON BASIN														
D-1173 1N/5W- 4B1	NW. of San Bernardino; 600 feet SE. of Cajon Connection, 4,500 feet SW. of U.S. Highway No. 66/395, SE. of ranch house. Owner: Glen Helen Ranch. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 805.	2,000	---	7-22-52[e]	7.5	365	244	----	0.4	171	12	33	Tr.	30	15	26	2	29	136	
D-1164 1N/5W- 3A1	NW. of San Bernardino; 200 feet SW. of U.S. Highway No. 66/395, from a point 700 feet SE. of the intersection with Kendall Dr. Owner: San Bernardino Utilities Corp. Use: Municipal. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 317.	1,892	411	6- 8-48[e]	7.0	384	239	0.61	0.6	224	9	21	3	58	13	4	--	4	199	
				9-28-48[e]	7.5	398	254	0.74	0.5	217	8	25	1	63	19	13	--	11	282	
				9-13-49[e]	7.0	384	244	----	0.3	220	9	29	7	55	14	11	--	11	196	
				9-20-51	7.5	426	274	0.01	---	222	9	26	4	57	16	14	--	--	208	
				4-21-53[e]	7.5	412	252	0.05	0.5	227	9	20	5	54	16	8	3	8	200	
D-1126a 1N/5W- 2K1	NW. of San Bernardino; 350 feet NE. of Kendall Dr., 25 feet NW. of Cypress Ave. Owner: City of San Bernardino. Use: Municipal. Casing: 20 inches. Perforated 150-192; 230-242; 274-289.	1,782	319	5-11-45[c]	---	340	---	----	---	198	7	4	---	55	6	7	--	--	163[b]	Destroyed, Sept. 1952.
D-1164 2N/5W-19R1	NW. of San Bernardino; 2.6 miles NW. of Cajon Connection along U. S. Highway No. 66/395, 800 feet SW. of highway; 920 feet N. and 1,220 feet W. of SE. corner Sec. 19, T. 2 N., R. 5 W., S.B.B. & M. Owner: City of San Bernardino. Use: irrigation and domestic. Casing: 8-foot concrete caisson.	2,400	63	10- 7-40[h]	---	587	479	0.05	---	278	9	68	---	77	20	16	--	13	174[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							LOWER CAJON BASIN - (continued)													
D-1265 1N/5W-19M1	NW. of San Bernardino; 2.75 miles NW. of Cajon Connection along U.S. Highway No. 66/395, 1,000 feet SW. of highway; 1,360 feet N. and 1,740 feet W. [illegible] Section 19, [illegible]. Owner: City of San Bernardino. Use: Domestic. Casing: 20 inches.	2,328	186	9-28-40[c]	---	586	433	0.05	---	275	11	77	--	76	18	25	--	17	264[b]	
				3-31-41[c]	---	608	430	0.05	---	281	11	72	--	80	19	19	--	13	278[b]	
				9-17-41[c]	---	588	458	----	---	256	12	66	--	80	19	13	--	6	278[b]	
							UPPER CAJON BASIN													
D-1266 3N/5W-[illegible]	NW. of San Bernardino; 300 feet S. and 450 feet W. of intersection of U.S. Highway No. 66 and State Highway No. 138. Owner: State of California, Division of Highways. Use: Highway [illegible]. Casing: [illegible]. Perforated: [illegible].	3,090	101	3-17-54	8.2	503	302	----	0.4	268	11	28	6	61	10	40	2	--	193[b]	CO_3 = 10 ppm.
							CHINO BASIN													
C-673 1S/8W-28F1	E. of Pomona; 25 feet S. of First St., 80 feet W. of East End Ave. Owner: East End Irrigation Company. Use: Irrigation.	900	455	10-22-31[a]	---	384	---	0.02	---	177	9	18	22	53	13	12	--	12	185[b]	
				9-22-37	---	413	---	0.10	---	178	13	21	37	58	11	12	--	11	190[b]	
				5-20-47	---	454	---	0.00	---	190	10	33	71	71	16	12	--	10	244[b]	
C-673a 1S/8W-28E[illegible]	E. of Pomona; 100 feet S. of First St., 0.24 mile E. of Reservoir Ave. Owner: City of Pomona, well No. 5. Casing: 20 inches. Perforated 141-424.	892	575	8-22-50[i]	7.0	---	374	0.50	---	136	12	94	3	112	20	--	--	--	362[b]	CO_3 = 28 ppm.
				8-13-51[i]	6.5	---	344	----	---	180	12	67	60	112	7	--	--	--	309[b]	
				9-30-52[i]	8.4	366	190	----	---	178	10	18	10	41	19	4	--	--	180[b]	CO_3 = Trace.
				9-29-53[i]	8.0	433	429	----	---	274	18	26	0	42	12	58	--	--	154[b]	
				9-30-53	8.1	367	222	0.08	---	161	2	26	23	42	11	15	2	19	150[b]	
C-673c 1S/8W-28G1	SE. of Pomona; 600 feet S. of State St., 600 feet E. of East End Ave. Owner: City of Pomona. Casing: 14 inches. Perforated 168-191, 295-318, 427-432, 464-497, 506-511, 619-630, 630-634, 634-682. S.B.Co.F.C.D. sample point No. 1,006.	895	700	12-10-53[e]	8.0	340	188	0.06	0.2	151	15	24	17	37	14	10	2	13	149	
C-673e 1S/8W-28N1	SE. of Pomona; 555 feet E. of Reservoir St., 395 feet S. of Ninth St. Owner: City of Pomona, well No. 14.	857	560	5-27-53[f]	7.8	364	249	----	0.2	172	9	18	11	45	8	14	2	--	145[b]	
				10-28-53	8.0	334	202	0.20	0.3	181	4	18	5	45	9	14	2	17	149[b]	
C-673f 1S/8W-28M1	E. of Pomona; 619 feet S. of Fifth Ave., and 819 feet E. of Reservoir St. Owner: City of Pomona, well No. 11.	868	550	5-27-52[f]	7.7	392	266	----	0.3	187	14	25	34	61	10	11	2	--	193[b]	
				11- 2-53	7.9	413	201	0.04	0.3	168	11	24	34	60	10	9	1	10	191[b]	
C-673g 1S/8W-28E1	E. of Pomona; 595 feet S. of First St., 1,058 feet E. of Reservoir St. Owner: City of Pomona, well No. 6. Use: Domestic. Casing: 20 inches.	885	---	5-27-53[f]	7.6	482	292	----	0.2	177	16	29	54	68	10	10	2	--	211[b]	
				10-22-53	7.9	391	254	----	0.3	200	8	25	20	57	12	12	2	12	191[b]	
C-674c 1S/8W-29H1	E. of Pomona; 157 feet N. of Second St., 288 feet W. of Reservoir St. Owner: Pomona Valley Ice Company. Use: Industrial. Casing: 12 inches.	880	632	5-27-53[f]	7.5	512	349	----	0.2	187	27	26	64	78	14	10	2	--	252[b]	
				10-22-53	8.1	571	---	----	0.2	185	32	36	--	80	16	11	2	8	266[b]	
C-674k 1S/8W-31M1	Pomona; 360 feet E. of Park Ave., 100 feet S. of Phillips Blvd. Owner: Park Avenue Water Company. Use: Irrigation. Casing: 16 inches.	807	273	8-20-51[i]	6.9	---	428	----	---	224	28	91	40	124	20	--	--	--	392[b]	
				11-28-53	7.7	495	303	----	0.2	232	17	27	24	66	15	18	2	15	227[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
C-6821 1S/8W- 5G1	Pomona; 650 feet E. of Town Ave., 75 feet S. of Olive St. Owner: M.G. Sigstad. Casing: 8½ inches. Perforated 208-290.	769	295	4-15-53[j]	7.9	388	---	0.04	0.3	193	8	23	19	54	11	13	2	13	183[b]	
				9-30-53[f]	8.2	386	---	----	---	182	10	--	--	--	--	--	--	--	---	CO_3 = 2 ppm.
D-716 1S/7W- 8N1	Upland; 200 feet S. of Ninth St., 500 feet W. of Campus Ave. Owner: City of Upland, well No. 7. Use: Municipal. Casing: 24 inches. Perforated 443-880. S.B.Co.F.C.D. sample point No. 386.	1,214	901	12- 1-31[a]	7.7	337	---	0.14	---	189	6	7	7	49	8	14	--	17	155	
				7-27-49[c]	7.1	341	226	0.00	0.2	188	11	14	10	44	10	13	--	15	154	
				10-22-53	8.2	454	283	0.04	0.3	168	9	27	43	55	16	13	2	12	203	CO_3 = 10 ppm.
D-718 1S/8W-12K1	SW. of Upland; 90 feet W. of Mountain Ave., and 45 feet N. of P.E.R.R. Owner: West End Consolidated Water Co. Use: Irrigation. S.B.Co.F.C.D. sample point No. 1,001.	1,252	1,013	12-10-53[c]	8.4	401	256	0.01	0.4	134	11	22	53	32	17	21	3	23	151	CO_3 = 5 ppm.
D-722c 1S/8W-14B2	NW. of Ontario; 100 feet S. of 8th St., 300 feet E. of Vernon Ave. Owner: Limited Mutual Water Company, well No. 1. Use: Irrigation and domestic. Casing: 16 inches. S.B.Co. F.C.D. sample point No. 334.	1,182	660	12- 2-31[a]	---	351	---	0.13	---	201	2	14	4	51	13	11	--	12	181[b]	
				5-26-47	7.8	357	---	0.00	---	203	6	13	27	56	13	12	--	12	193[b]	
				3-29-48	8.4	271	---	0.00	---	152	5	16	29	38	12	12	--	15	144[b]	
				5-18-51	7.7	400	---	0.01	---	207	7	14	29	59	11	17	--	16	233[b]	
				10-14-52[e]	6.6	412	280	0.04	0.4	201	13	19	39	62	12	8	2	7	202	
				5-14-53	7.9	420	---	0.01	---	189	9	12	29	53	15	14	--	14	194[b]	
D-722d 1S/8W-14B1	NW. of Ontario; 150 feet S. of 8th St., 500 feet E. of Vernon Ave. Owner: Limited Mutual Water Company, well No. 2. Use: Irrigation and domestic. Casing: 20 inches. Perforated 334-339-354-452, 462-474, 486-500, 510-568, 598-618, 623-652, 659-664. S.B.Co.F.C.D. sample point No. 335.	1,158	664	12- 2-31[a]	---	333	---	0.12	---	189	0	--	--	--	--	--	--	--	---	
				3-21-47	7.9	352	---	0.00	---	204	6	16	41	55	13	12	--	12	191[b]	
				3-29-48	8.4	340	---	0.00	---	202	5	17	35	57	12	10	--	10	191[b]	
				5-18-51	8.0	410	---	0.01	---	201	9	17	39	61	12	17	--	15	202[b]	
				3-17-52	7.8	390	---	0.03	---	195	9	14	39	63	13	21	--	18	211[b]	
				10-14-52[e]	6.7	407	271	0.07	0.4	198	14	30	33	51	13	14	2	11	207	
				5-14-53	8.0	430	---	0.03	---	195	9	15	36	58	14	14	--	13	203[b]	
D-722k 1S/8W-15H1	W. of Ontario; 30 feet W. of Monte Vista Ave., and 0.1 mile N. of San Jose (6th) St. Use: Irrigation. S.B.Co.F.C.D. sample point No. 1,002.	1,120	---	12-10-53[c]	8.2	285	162	0.00	0.7	146	7	20	3	24	4	34	2	--	74[b]	
D-723a 1S/8W-13L1	SW. of Ontario; 200 feet W. of Mountain Ave., 45 feet S. of 6th St. S.B. Co.F.C.D. sample point No. 1,003.	1,142	---	12-10-53[c]	7.9	462	284	0.03	0.3	190	14	22	52	61	13	13	3	12	209	
D-726 1S/7W-20A2	E. of Ontario; 60 feet E. of Cucamonga Ave., 75 feet S. of 4th St. Owner: City of Ontario, well No. 1. Use: Municipal.	1,071	665	5-19-50[k]	7.3	---	278	0.00	---	200	8	16	8[m]	51	10	13	2	12	168	
				6-12-51[k]	7.3	---	274	0.04	0.8	212	9	18	5[m]	48	10	16	1	17	160	
				9- 4-53[k]	7.9	---	253	0.20	0.1	162	9	9	4[m]	40	12	15	2	18	151	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10^6 x 10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-726a 1S/7W-20A3	E. of Ontario; 80 feet S. of 4th St., 75 feet W. of Grove Ave. Owner: City of Ontario, well No. 3. Use: Municipal. Casing: 18 inches.	1,065	604	5-19-50[k]	7.3	---	271	0.05	---	183	7	24	13[m]	49	10	13	2	15	163	
				6-12-51[k]	7.2	---	267	0.06	0.8	185	8	24	18[m]	46	10	16	1	18	154	
				9- 4-53[k]	7.9	---	253	0.70	0.2	157	9	10	5[m]	38	17	14	1	19	166	
D-726b 1S/7W-20A1	E. of Ontario; 85 feet S. of 4th St., 300 feet E. of Cucamonga Ave. Owner: City of Ontario, well No. 2. Use: Municipal. Casing: 16 inches. S.B. Co.F.C.D. sample point No. 312.	1,064	600	4-17-31[a]	---	---	---	----	---	199	10	20	--	--	--	--	--	--	---	
				5-27-47	7.5	339	---	0.00	---	205	6	14	11	52	11	17	--	17	175[b]	
				4-15-48	8.1	348	---	0.00	---	204	5	13	11	48	12	13	--	15	169[b]	
				5-19-50[k]	7.4	---	285	0.06	---	205	7	20	10[m]	52	10	13	2	15	173	
				5- 4-51	8.4	340	---	----	---	195	5	16	12	50	10	23	--	23	166[b]	
				6-12-51[k]	7.4	---	282	0.04	0.8	212	8	22	4[m]	49	11	15	1	16	166	
				2-29-52	8.1	310	---	0.04	---	208	9	14	10	51	10	20	--	22	169[b]	
				5-14-53	7.8	370	---	0.03	---	189	7	8	12	47	11	17	--	19	163[b]	
				9- 4-53[k]	8.0	---	270	0.20	0.3	171	6	10	4[m]	40	20	16	2	16	184	
D-726c 1S/7W-21D1	E. of Ontario; 90 feet S. of 4th St., 300 feet E. of Grove Ave. Owner: City of Ontario, well No. 4. Use: Municipal. Casing: 20 inches. Perforated 298-320; 322-337; 424-447; 452-461.	1,056	600	12- 1-31[a]	7.6	342	---	0.15	---	183	6	14	6	47	10	15	--	17	158	
				9-30-37	---	350	---	0.22	---	180	7	19	6	45	9	15	--	18	149[b]	
				11- 1-46	7.5	312	---	0.50	---	180	5	16	13	49	10	15	--	17	163[b]	
				4-15-48	8.0	342	---	0.00	---	185	5	16	18	47	10	13	--	15	159[b]	
				5- 4-51	8.2	340	---	0.00	---	189	9	20	11	49	9	20	--	21	159[b]	
				6-12-51[k]	7.3	---	275	0.06	0.4	188	8	23	22[m]	46	11	16	1	18	162	
				2-29-52	7.8	310	---	0.05	---	201	7	13	10	51	10	20	--	21	169[b]	
				5-14-53	8.2	390	---	0.03	---	201	0	11	12	48	12	16	--	17	169[b]	
				7- 1-53	7.7	356	224	0.06	0.9	178	7	11	20	45	10	15	1	17	154[b]	
				9- 4-53[k]	7.8	---	252	0.40	0.1	157	7	13	6[m]	35	17	15	2	17	157	
D-729 1S/8W-23N1	W. of Ontario; 175 feet S. of Kingsley Ave., 0.25 mile E. of Monte Vista Ave. Casing: 18 inches. S.B.Co.F.C.D. sample point No. 1,004.	986	400	12-10-53[e]	7.7	550	333	0.06	0.2	207	16	29	71	76	16	10	2	8	258	
D-732 1S/8W-15Q1	E. of Pomona; 30 feet S. of 5th St., 800 feet E. of Ramona Ave. Owner: Ramona Mutual Irrigation Company. Use: Irrigation. Casing: 14 inches. Perforated 249-270; 280-312; 363-370; 414-430.	1,070	441	10-22-31[a]	7.9	348	---	0.03	---	186	7	17	7	53	12	9	--	10	180	
				3-21-47	7.6	372	---	0.00	---	192	11	19	44	61	13	10	--	9	206	
				4-23-51	8.0	440	---	0.00	---	207	14	18	43	68	13	6	--	6	223[b]	
				5-14-53	8.0	490	---	0.01	---	207	14	13	46	72	15	11	--	9	243	
D-733e 1S/8W-26B1	SW. of Ontario; 200 feet E. of Central Ave., 500 feet N. of S.P.R.R. Owner: Monte Vista County Water District, well No. 1. Use: Domestic. Perforated 245-294; 300-315; 325-344; 348-378; 420-472. S.B.Co.F.C.D. sample point No. 333.	970	474	10-15-48[e]	7.5	471	---	----	0.2	198	--	--	54	--	--	--	--	--	---	
				10-14-52[e]	6.5	430	368	0.00	0.2	202	17	22	55	74	13	9	2	8	234[b]	
D-734c 1S/8W-25D1	W. of Ontario; 60 feet S. of State St., 0.15 mile E. of Benson Ave. S.B. Co.F.C.D. sample point No. 1,005.	968	480	12-10-53[e]	8.0	412	242	0.05	0.1	195	11	14	31	54	14	10	2	10	192	
D-735a 1S/7W-30Q1	Ontario; 350 feet W. of Euclid Ave., 600 feet S. of Dessau Ave. Owner: City of Ontario, well No. 5. Use: Municipal. Gravel 186-190; 201-286; 345-405; 411-445; 542-550; 642-652. S.B.Co.F.C.D. sample point No. 1,019. Casing plugged at 507 feet.	921	672	12- 1-31[a]	7.7	395	---	0.15	---	207	9	9	18	51	14	17	--	17	183	
				5-27-47	7.7	351	---	0.00	---	209	7	7	22	52	12	19	--	19	179[b]	
				3-30-48	8.3	314	---	0.00	---	198	7	10	18	50	11	15	--	16	170[b]	
				5-19-50[k]	7.4	---	285	0.05	---	204	8	19	13[m]	50	12	12	2	13	175	
				4-23-51	8.3	330	---	0.03	---	195	7	14	29	48	8	13	--	16	153[b]	
				6-12-51[k]	7.5	---	264	0.09	0.4	210	10	26	18[m]	45	11	14	1	16	156	
				2-29-52	8.1	270	---	0.04	---	201	7	36	11	50	8	19	--	21	158[b]	
				5-14-53	7.8	390	---	0.02	---	207	9	4	16	46	15	17	--	17	178	
				9- 4-53[k]	8.0	---	259	0.30	0.0	175	8	6	3[m]	36	16	14	2	16	154	
				1- 4-54[e]	7.7	373	216	0.00	0.2	188	8	13	14	41	12	17	2	19	151	
D-735t 1S/7W-30R1	S. of Ontario; 75 feet N. of Dessau Ave., 210 feet E. of Euclid Ave. Owner: City of Ontario, well No. 6. Use: Municipal. Casing: 26 inches.	929	551	5-19-50[k]	7.6	---	270	0.09	---	192	8	16	12[m]	47	10	14	2	16	160	
				6-12-51[k]	7.6	---	269	0.02	0.4	200	8	16	18[m]	44	11	16	1	18	154	
				9- 4-53[k]	8.1	---	257	1.00	0.1	171	7	6	4[m]	35	16	15	2	17	155	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-735f 1S/7W-30P1	SE. of Ontario; 35 feet S. of Dessau St., 250 feet W. of Vine Ave. S.B. Co.F.C.D. sample point No. 1,018.	925	294	1- 4-54[e]	7.8	385	224	0.07	0.2	205	9	8	18	44	16	13	2	13	175	
D-735g 1S/8W-25R1	SW. of Ontario; 42 feet S. of Dessau St., 100 feet E. of Palmetto Ave. Owner: Armstrong Nurseries, well No. 5. Use: Irrigation. Casing: 16 inches. Perforated 225-255; 332-346; 370-385; 410-500. S.B.Co.F.C.D. sample point No. 1,020.	915	518	1- 4-54[e]	7.7	413	260	0.03	0.1	200	8	12	27	54	12	10	2	10	185	
D-737c 2S/7W- 4D1	SE. of Ontario; 60 feet S. of Ely St., 300 feet E. of Grove Ave. Owner: Dr. A.L. Bryant. Use: Domestic and irrigation. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 139.	842	365	2-13-45[e]	7.7	357	205	0.00	---	145	2	15	11	42	13	35	--	33	156	
				9- 6-45[e]	7.2	463	158	0.00	---	301	7	6	22	63	16	13	--	11	218	
				11- 5-45[e]	7.4	463	248	0.00	---	285	11	12	12	58	15	16	--	14	206	
				7- 1-53[e]	7.0	509	308	----	0.7	295	12	13	--	62	20	20	2	15	235	
D-740a 1S/8W-35C1	N. of Chino; 445 feet W. of Central Ave., 400 feet S. of Phillips Blvd. Owner: City of Chino, well No. 3. Use: Municipal. Casing: 16 inches. Perforated 230-245; 278-300; 330-344; 379-383; 393-396; 414-418; 428-435; 443-450.	881	453	5-18-31[a]	---	---	---	----	---	190	9	8	--	--	--	--	--	--	---	
				5-27-47	7.8	345	---	0.00	---	192	9	14	27	56	11	11	--	11	185[b]	
				3-29-48	8.4	323	---	0.00	---	193	7	16	29	56	11	10	--	11	185[b]	
				4-23-51	8.0	380	---	0.00	---	195	14	16	28	57	10	9	--	10	183[b]	
				2-29-52	7.7	380	---	0.05	---	214	7	16	27	61	10	17	--	15	193[b]	
				5-14-53	8.0	420	---	0.04	---	195	11	12	26	57	15	11	--	11	203	
D-740b 1S/8W-35C2	N. of Chino; 90 feet S. of Phillips Blvd., 260 feet W. of Central Ave. Owner: City of Chino, well No. 1. Use: Municipal. Casing: 16 inches. Perforated 140-150; 230-250; 274-280; 366-374.	890	402	12- 1-31[a]	---	336	---	0.16	---	189	2	13	4	49	10	9	--	11	163[b]	
				6-12-40	---	360	---	----	---	190	18	15	11	53	10	15	--	16	173[b]	
				11- 1-46	7.7	328	---	0.04	---	186	7	15	16	56	11	9	--	9	185[b]	
				3-29-48	8.5	322	---	0.00	---	189	7	15	25	57	11	6	--	7	187[b]	
				4-23-51	8.1	390	---	0.00	---	195	11	14	25	60	10	11	--	11	191[b]	
				2-29-52	7.8	360	---	0.07	---	207	7	17	27	59	12	13	--	12	197[b]	
D-741s 1S/8W-34A1	SW. of Ontario; 600 feet W. of Monte Vista Ave., 100 feet S. of Grand Ave. Owner: Monte Vista County Water District, well No. 2. Use: Domestic. Casing: 20 inches. Perforated 397-962; S.B.Co.F.C.D. sample point No. 856.	882	1,003	10-14-52[e]	6.6	307	197	0.05	0.2	175	7	18	6	42	10	14	2	17	175	
D-742 1S/8W-33E1	SE. of Pomona; 30 feet S. of Francis St., and 60 feet E. of East End Ave. S.B.Co.F.C.D. sample point No. 1,021.	826	300	1- 4-54[e]	7.7	437	264	0.03	0.2	190	12	22	35	61	12	10	2	9	202	
D-744h 2S/8W- 2D1	N. of Chino; 150 feet W. of Telephone Ave., 30 feet S. of Philadelphia St. Owner: John Weiss. Use: Domestic. Casing: 6 inches.	806	175	12- 1-31[a]	---	423	---	0.22	---	217	13	13	10	53	14	20	--	18	189[b]	
				12-24-46	---	400	---	0.00	---	195	12	21	21	55	16	17	--	16	204[b]	
				5-27-47	---	378	---	0.00	---	180	11	19	44	50	14	22	--	22	182[b]	
				3-29-48	---	364	---	0.00	---	194	12	19	35	52	13	17	--	17	183[b]	
				4-23-51	8.1	470	---	0.00	---	250	14	17	27	64	15	18	--	22	222[b]	
D-745 2S/8W- 2C1	SW. of Ontario; 30 feet S. of Philadelphia St., 300 feet W. of Central Ave. S.B.Co.F.C.D. sample point No. 1,022.	822	232	1- 4-54[e]	7.8	385	227	0.03	0.2	190	9	14	15	50	12	10	2	11	175	
D-747e 2S/7W- 6J1	S. of Ontario; 600 feet S. of Walnut Ave., 800 feet E. of Euclid Ave. Owner: H.F. Brown, et al. Use: Domestic and irrigation.	811	300	12- 2-31[a]	7.9	394	---	0.02	---	210	11	5	6	49	13	17	--	17	177	
				12-13-46	7.2	410	---	0.00	---	211	23	16	12	59	13	18	--	16	202	
				3-30-48	8.2	364	---	0.00	---	214	18	11	22	56	12	16	--	15	189[b]	
				4-23-51	8.1	410	---	0.00	---	220	21	10	23	53	13	16	--	16	185[b]	
				2-29-52	8.1	310	---	0.06	---	226	14	9	21	56	11	22	--	21	185[b]	
				5-14-53	7.8	470	---	0.04	---	232	14	6	33	57	16	19	--	17	208	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-748b 2S/7W- 5A1	SE. of Ontario; 200 feet W. of Grove Ave., 50 feet S. of Ely St. Owner: Hobart. S.B.Co.P.C.D. sample point No. 230.	841	---	8-28-47°	6.8	465	221	0.24	0.2	295	13	16	24	73	18	22	--	16	284	
				7- 1-53°	6.9	769	457	0.00	0.6	476	16	10	9	104	31	25	2	12	388	
D-755c 2S/8W-10L1	SW. of Chino; 50 feet S. of Chino Ave., 300 feet W. of Ramona Ave. S.B.Co.P.C.D. sample point No. 67.	705	---	9-18-43°	7.7	333	207	0.05	---	183	4	17	11	41	16	7	--	8	170	
D-754L 2S/8W- 9C1	W. of Chino; 125 feet S. of Riverside Ave., 35 feet W. of East End Ave. Owner: B.B. Labaw. Use: Domestic and irrigation. Casing: 12 inches. Perforated 140-151; 200-208; 238-245; 260-270.	738	273	10-22-31[a]	---	338	---	0.06	---	186	5	16	4	46	11	16	--	18	160[b]	
				1-16-47	---	348	---	0.00	---	183	5	24	13	65	14	11	--	10	219[b]	
D-756 2S/8W-17L1	SW. of Chino; 150 feet S. of Old English Road, 0.55 mile W. of Abbona Rd. Use: Domestic. Casing: 12 inches. S.B.Co.P.C.D. sample point No. 141.	740	---	2-13-45°	7.7	2,273	1,182	4.68	---	611	422	24	8	40	18	438	--	[illegible]	175	
				5- 1-45°	8.0	2,639	1,410	7.07	---	[illegible]	[illegible]	14	23	46	16	526	--	[illegible]	180	
				11- 5-45°	8.0	2,268	1,174	6.78	---	[illegible]	421	27	20	37	14	445	--	[illegible]	151	CO_3 = 10 ppm.
D-756a 2S/8W-17K1	SW. of Chino; 50 feet N. of Old English Road, 0.5 mile W. of Abbona Rd., 400 feet NE. of well No. D-756. Use: Domestic. Casing: 10 inches. S.B. Co.P.C.D. sample point No. 152.	740	---	5- 1-46°	7.2	1,984	1,244	0.04	---	333	281	482	24	189	51	175	--	36	579	
				9- 6-45°	7.2	2,066	1,310	0.12	---	315	338	361	22	193	48	194	--	36	679	
				6-15-49°	---	-----	1,241	----	0.5	600	110	523	0	171	84	132	--	27	774	
				10-31-52°	7.3	988	594	0.11	0.8	346	83	124	5	85	40	72	4	29	375	
D-756b 2S/8W-17L2	SW. of Chino; 150 feet S. of Old English Road, 0.55 mile W. of Abbona Rd., 40 feet W. of well No. D-856. Casing: 6 inches. S.B.Co.P.C.D. sample point No. 194.	750	---	10-31-46°	7.5	1,458	800	0.92	---	556	82	211	8	127	58	116	--	31	561	Not used since be 10-31-46.
D-757a 2S/8W-16J2	SW. of Chino; 120 feet W. of Pipeline Ave., 450 feet S. of Edison Ave. Owner: Stuart. Use: Domestic. S.B. Co.P.C.D. sample point No. 140.	657	---	2-13-45°	7.4	465	278	0.00	---	226	7	41	1	63	14	31	--	24	215[b]	
				5- 1-45°	7.5	409	244	0.00	---	211	9	25	4	57	12	19	--	17	191[b]	
				9- 6-45°	7.8	554	160	0.00	---	261	6	52	11	84	14	13	--	10	267[b]	
				11- 5-45°	7.6	581	253	0.00	---	281	17	32	16	86	17	16	--	11	285[b]	
D-757k 2S/8W-16C1	SW. of Chino; 25 feet S. of Schaefer Ave., 750 feet W. of East End Ave. Owner: Brambaugh. Casing: 7 inches. S.B.Co.P.C.D. sample point No. 75.	686	---	1-26-44°	7.0	1,339	987	0.04	---	401	43	346	17	200	32	37	--	11	634	
D-758a 2S/8W-15L1	SW. of Chino; 500 feet W. of Ramona Ave., 45 feet S. of Edison Ave. Owner: W.H. Delphy. Use: Domestic and irrigation. Casing: 24 inches. S.B.Co.P.C.D. sample point No. 193.	653	246	10-31-46°	7.7	408	254	----	---	202	10	29	30	58	14	16	--	14	200	
				12- 1-48[d]	8.1	415	---	0.03	0.2	205	9	28	6	54	11	15	--	15	183[b]	
D-759g 2S/8W-15Q1	SW. of Chino; 600 feet N. of Eucalyptus Ave., 600 feet E. of Ramona Ave. Owner: McCain. S.B.Co.P.C.D. sample point No. 65.	638	---	10- 2-43°	7.8	337	202	0.00	---	177	4	13	6	43	6	11	--	15	133	
				1-26-44°	7.5	348	210	0.00	---	212	4	18	7	42	15	7	--	9	169	
D-758m 2S/8W-15L2	SW. of Chino; 300 feet S. of Edison Ave., 300 feet W. of Ramona Ave. Owner: W.H. Delphy, Delphy artesian well. S.B.Co.P.C.D. sample point No. 71.	652	---	1-26-44°	7.6	416	266	0.02	---	224	11	22	21	57	11	9	--	9	186	
				2-13-45°	7.9	422	252	0.00	---	209	8	22	12	49	14	29	--	24	206	
				11- 5-45°	7.8	413	232	0.00	---	234	13	16	14	56	13	11	--	11	197	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-759c 2S/8W-14B1	Chino; 0.25 mile E. of Central Ave., 0.25 mile S. of Schaefer Ave. Owner: Charles Othas. Use: Domestic and irrigation. Casing: 12 inches. Perforated 147-159; 205-250.	681	255	12- 1-31[a]	7.8	302	---	0.13	---	171	0	17	1	39	10	16	--	20	138	
				2-11-47	---	286	---	0.00	---	173	3	18	2	40	9	13	--	17	137[b]	
				3-29-48	---	263	---	0.00	---	171	1	18	Tr.	40	9	14	--	18	137[b]	
				5- 4-51	8.1	290	---	0.00	---	183	5	17	3	49	9	21	--	22	159[b]	
				2-29-52	8.1	240	---	0.00	---	183	4	17	3	42	8	19	--	23	138[b]	
				9-30-53	8.1	292	172	0.00	0.02	171	3	18	5	40	9	14	2	18	137	
D-759d 2S/8W-14H1	Chino; 100 feet N. of Edison Ave., 30 feet W. of Benson Ave. (15th St). Owner: Southern California Edison Co., Ltd. Use: Domestic and industrial. Perforated 100-106; 126-134.	670	202	2-23-33[a]	---	315	---	0.03	---	171	2	--	--	--	--	--	--	--	---	
				5-27-47	8.0	298	---	0.00	---	178	3	18	6	43	11	18	--	21	153[b]	
				3-29-48	8.5	267	---	0.00	---	175	2	18	4	43	9	9	--	12	145[b]	
				5- 3-51	7.9	310	---	----	---	183	7	17	4	42	8	25	--	28	138[b]	
				2-29-52	8.0	300	---	0.08	---	195	0	18	3	41	9	18	--	22	139[b]	
				3-19-53	8.2	330	---	0.05	---	183	7	14	5	44	10	17	--	19	151[b]	
D-759f 2S/8W-23A1	SE. of Chino; 940 feet S. of Eucalyptus Ave., 2,264 feet E. of Central Ave. Owner: California Institution for Men, well No. 1. Use: Domestic. Casing: 26 inches to 30 feet, and 16 inches to 366 feet. Perforated 118-120; 150-157; 165-169; 181-200; 210-225; 242-248; 276-295; 307-312; 325-328; 353-357. S.B.Co.F.C.D. sample point No. 250.	628	366	11-25-47[e]	7.2	343	246	0.14	2.0	192	9	23	7	44	11	24	--	25	155	
D-760g 2S/8W-13L1	SE. of Chino; 60 feet S. of Edison Ave., 60 feet W. of Magnolia Ave. Owner: California Institution for Men, well No. 3. Use: Domestic and irrigation. Casing: 16 inches. Perforated 70-74; 158-161; 188-201; 210-225; 245-248; 258-261; 309-316; 339-351; 384-396. S.B.Co.F.C.D. sample point No. 249.	675	409	11-25-47[e]	7.0	391	310	0.07	0.0	204	13	20	27	56	13	23	--	20	194	
D-762 2S/7W-17D1	E. of Chino; 90 feet S. of Schaefer Ave., 0.36 mile E. of Euclid Ave. Owner: R.J. Behrens. Use: Irrigation. Casing: 18 inches.	723	240	12- 2-31[a]	7.6	941	---	0.10	---	220	160	46	4	117	34	24	--	11	430	
				9-30-37	7.6	564	---	0.14	---	234	45	24	17	69	18	20	--	15	246	
				8-16-39	---	610	---	----	---	240	49	19	13	75	19	20	--	14	266[b]	
				11- 1-46	7.5	543	---	0.10	---	250	46	17	29	82	22	22	--	14	295[b]	
				5-27-47	7.7	535	---	0.00	---	246	39	16	23	74	20	15	--	11	267[b]	
				4-23-51	7.9	980	---	0.00	---	390	78	78	74	140	39	15	--	6	509	
				2-29-52	8.2	790	---	0.06	---	390	71	74	76	138	37	32	--	12	497[b]	
				9-30-53	8.0	543	327	0.00	0.2	251	26	22	46	73	18	21	2	15	256	
D-762a 2S/7W-17L1	SE. of Chino; 150 feet S. of Edison Ave., 0.2 mile W. of Bon View Ave. Owner: Earl Thomas. Use: Domestic and irrigation. Casing: 14 inches. Perforated 44-60; 146-154; 193-199.	695	240	2-23-33	---	387	---	0.04	---	198	9	12	9	46	13	19	--	20	168[b]	
				5-27-47	7.7	405	---	0.20	---	228	11	12	27	57	15	19	--	17	204[b]	
				3-39-48	8.4	385	---	0.00	---	230	17	13	27	59	15	18	--	16	210[b]	
				4-23-51	8.0	470	---	0.00	---	244	18	15	28	63	15	18	--	15	220[b]	
				2-29-52	8.0	450	---	0.05	---	244	11	16	22	61	15	23	--	19	214[b]	
				3-20-53	8.1	450	---	0.10	---	232	14	11	17	56	16	20	--	17	206[b]	
D-762g 2S/7W-17L2	E. of Chino; 150 feet S. of Shaefer Ave., 0.30 mile W. of Bon View Ave. Owner: F.A. Helsley. Use: Domestic. Casing: 6 inches.	720	80	12- 2-31[a]	---	572	---	0.13	---	281	28	17	8	76	19	21	--	14	268[b]	
				2-11-47	7.8	508	---	0.00	---	276	27	14	35	72	18	20	--	14	154[b]	
				3-30-48	7.9	598	---	0.00	---	339	29	23	71	98	24	23	--	13	344[b]	
				4-23-50	7.9	420	---	0.00	---	232	18	13	28	60	15	18	--	15	212[b]	
				2-29-52	8.2	400	---	0.02	---	250	18	14	30	66	15	24	--	18	227[b]	
D-764a 2S/7W-19B1	SE. of Chino; 50 feet S. of Eucalyptus Ave., 50 feet W. of Euclid Ave. S.B. Co.F.C.D. sample point No. 64.	662	---	9-13-43[e]	7.7	465	278	0.00	---	226	15	14	21	53	14	12	--	12	189	
				6-15-49[e]	---	---	---	----	0.0	264	30	25	34	74	26	21	--	14	292	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-767a 2S/8W-22B1	SW. of Chino; 216 feet E. of Ramona Ave., 850 feet S. of Eucalyptus Ave. Owner: F. Dojaguez. Use: Domestic and irrigation. Casing: 10 inches. S.B. Co.F.C.D. sample point No. 66.	631	137	9-18-43[e]	7.6	1,114	829	0.00	0.0	378	36	231	31	121	29	74	--	29	422	
				10-31-52[e]	7.2	736	458	0.11	0.4	342	21	100	5	85	24	48	2	25	311	
				10-23-53[f]	7.4	810	495	0.10	0.3	344	26	116	6	99	21	50	2	--	334[b]	
D-767c 2S/8W-23M1	S. of Chino; 0.25 mile S. of Merrill Ave., 60 feet E. of Monte Vista Ave. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 195.	607	---	10-31-46[e]	7.3	647	416	0.29	---	240	14	116	13	90	17	28	--	17	293	
				11-26-51[e]	7.7	340	214	0.04	0.1	172	9	21	2	42	8	17	--	21	137	
				4-28-52[e]	7.9	260	196	0.00	0.4	168	7	14	2	37	9	17	--	29	129	
D-767e 2S/8W-22F1	SW. of Chino; 680 feet W. of Ramona Ave., 1,110 feet N. of Merrill Ave. S.B.Co.F.C.D. sample point No. 38.	635	---	6- 4-43[e]	9.0	1,215	686	0.02	---	435	51	185	27	68	69	74	--	26	456	
				1-26-44[e]	7.3	1,152	835	0.14	---	422	54	174	27	122	37	62	--	23	457	
				6-15-49[e]	8.0	1,180	789	----	0.3	478	59	196	11	131	51	80	--	24	538	
D-771b 2S/8W-26D1	S. of Chino; 528 feet E. of Pomona Rincon Rd., 175 feet S. of Los Serranos Rd. Owner: M. Ellena. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 855.	597	61	10- 3-52[e]	7.8	1,110	764	0.04	0.4	403	55	240	4	96	48	96	2	33	437	
D-771e 2S/8W-26K1	S. of Chino; 225 feet E. of Pomona Rincon Rd., 0.58 mile SE. of intersection with Los Serranos Rd. Owner: L.J. Muzio. Use: Domestic and Irrigation. Casing: 16 inches.	576	175	2-23-33[a]	8.0	328	---	0.04	---	174	4	20	0	38	11	21	--	24	138	
				2-11-47	7.3	769	---	0.00	---	358	25	136	4	101	28	50	--	23	369	
				5- 3-51	7.4	750	---	0.05	---	335	28	133	3	97	23	76	--	33	336[b]	
				2-29-52	7.5	770	---	0.10	---	354	18	153	5	101	27	56	--	26	363[b]	
				3-16-53	8.0	770	---	0.05	---	305	28	146	5	96	27	46	--	27	352	
D-772 2S/8W-25M1	S. of Chino; 75 feet E. of Central Ave., 250 feet S. of Kimball Ave. Owner: R. Robles. Use: Domestic. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 224.	572	86	8-25-47[e]	6.4	316	209	0.00	0.0	180	6	21	28	67	4	20	--	18	187	
				11-24-47[e]	6.1	434	190	0.00	0.0	170	6	21	25	48	11	34	--	31	167	
				11-26-51[e]	7.9	300	191	0.06	---	170	7	14	1	39	6	16	--	22	123	
				10- 3-52[e]	7.7	302	188	0.08	0.1	166	6	13	6	38	9	14	2	19	130	
				10-23-53[f]	8.0	276	176	0.10	0.2	165	10	15	0	41	7	17	2	--	131[b]	
D-772b 2S/8W-25L1	S. of Chino; 45 feet S. of Kimball Ave., 45 feet W. of Magnolia Ave., produced. Owner: R. Robles and J. Yahiro. Use: Irrigation and domestic. S.B.Co.F.C.D. sample point No. 225.	580	154	2-23-33[a]	---	309	---	0.04	---	168	2	17	6	37	10	21	--	25	133[b]	
				9-30-37	---	315	---	0.20	---	167	6	21	2	36	7	19	--	25	119[b]	
				11- 1-46	---	284	---	0.10	---	165	5	21	2	39	8	21	--	26	131[b]	
				8-25-47[e]	6.0	322	212	0.24	0.0	177	7	27	18	46	5	26	--	30	132	
				11-24-47[e]	6.9	336	202	0.00	0.3	177	9	25	12	53	35	22	--	25	197	
				4-23-51	7.9	330	---	0.00	---	183	7	33	5	44	8	19	--	22	143[b]	
				11-26-51[e]	7.8	430	267	0.00	---	193	14	37	4	53	11	21	--	20	176	
				2-29-52	8.2	360	---	0.09	---	201	4	41	2	47	9	26	--	27	155[b]	
				3-16-53	8.3	400	---	0.02	---	189	7	35	3	46	12	27	--	27	164[b]	
D-772f 2S/8W-25K1	SE. of Chino; 32 feet S. of Kimball Ave., 0.15 mile E. of Magnolia Ave. S.B.Co.F.C.D. sample point No. 245.	584	---	11-24-47[e]	6.8	333	195	0.14	0.0	174	9	23	12	44	3	38	--	40	122	
				11-26-51[e]	7.9	400	250	0.09	0.1	184	17	27	6	47	10	22	--	23	159	
D-772j 2S/8W-25L2	SE. of Chino; 120 feet S. of Kimball Ave., 1,230 feet W. of Magnolia Ave. Owner: W.E. Phillips. Use: Domestic. Casing: 7 inches. Gravel 32-36; 94-98. S.B.Co.F.C.D. sample point No. 242.	573	95	11-24-47[e]	6.8	315	184	0.49	0.3	186	6	18	3	50	10	32	--	30	167	
D-773a 2S/7W-30G1	S. of Ontario; 30 feet S. of Kimball Ave., 180 feet W. of Euclid Ave. Owner: A.L. Pickering. S.B.Co.F.C.D. sample point No. 234.	594	---	9- 2-47[e]	7.3	538	223	0.00	0.0	216	12	16	24	51	13	35	--	29	180	
				11-26-51[e]	7.6	390	250	0.00	---	212	14	15	10	48	12	18	--	19	168	
D-773c 2S/7W-30J1	SE. of Chino; 530 feet E. of Euclid Ave., 0.23 mile S. of Kimball Ave. Tenant: R.P. Lodeguard. Use: Irrigation. Casing: 10 inches.	581	---	6-12-40	---	320	---	----	---	158	18	30	10	24	4	58	--	63	76[b]	Artesian well.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-773g 2S/7W-30H1	SE. of Chino; S. side of Kimball Ave., 690 feet E. of Euclid Ave. S.B.Co.F.C.D. sample point No. 47.	596	-----	9- 3-43[e]	8.3	317	197	0.11	---	156	9	12	6	22	5	40	--	54	75	
				9-18-43[e]	8.2	317	182	0.10	---	152	10	11	7	23	5	37	--	51	77	
				1-26-44[e]	7.4	319	189	0.00	---	187	8	12	5	26	4	44	--	54	80	
				2-13-45[e]	7.8	325	190	0.00	---	163	7	13	1	27	3	48	--	57	79	
				5- 1-45[e]	8.4	321	200	0.00	---	163	7	10	19	30	1	64	--	64	79	
				11- 5-45[e]	8.1	327	234	0.00	---	168	11	12	24	31	2	38	--	49	87	
				6-15-49[e]	8.0	328	204	----	0.1	168	11	17	8	26	8	47	--	51	98	
				10-22-53[e]	7.9	520	308	0.00	0.1	254	12	4	9	62	13	34	2	26	209	
D-773k 2S/7W-30H2	SE. of Chino; 1,000 feet E. of Euclid Ave., 60 feet S. of Kimball Ave. Owner: W.H. Smith. Casing: 14 inches. Perforated 114-134; 255-296. S.B.Co. F.C.D. sample point No. 232	596	356	8-28-47[e]	7.1	311	209	0.00	0.0	167	3	12	54	35	7	47	--	14	117	
D-775 2S/7W-32F1	SE. of Chino; 0.59 mile E. of Euclid Ave., 270 feet N. of Pine Ave. Owner: J.F. Catlet. Use: Domestic. Casing: 7 inches.	575	140	2-23-33[a]	8.2	302	---	0.04	---	149	4	12	7	25	6	36	--	47	89	
				1-31-47	7.9	308	---	0.00	---	168	4	16	10	30	5	31	--	42	95[b]	
				5- 3-51	8.3	300	---	0.00	---	177	11	16	6	29	6	54	--	51	97[b]	
				2-29-52	8.0	370	---	0.05	---	232	4	19	6	35	7	48	--	47	117[b]	
				3-19-53	8.4	320	---	0.03	---	177	7	13	7	30	6	37	--	45	98	
D-775m 2S/7W-32K1	SE. of Chino; 160 feet W. of Cucamonga Ave., 0.3 mile S. of Pine Ave. Owner: E.J. Phillips. Use: Irrigation. Casing: 14 inches.	573	526	10-23-47	---	460	---	0.10	---	256	13	23	13	49	7	50	--	41	151[b]	
D-775n 2S/7W-32Q1	SE. of Chino; 0.56 mile S. of Pine Ave., 65 feet W. of Cucamonga Ave. Owner: California Institution for Women, well No. 2, field No. 3. Use: Irrigation. Casing: 14 inches. Perforated 128-218; 224-284; 290-334.	568	380	10-15-47	8.2	309	---	0.50	---	136	13	28	13	20	2	49	--	64	58[b]	
				4-23-51	8.3	300	---	0.28	---	146	18	24	10	21	1	48	--	66	56[b]	
				2-29-52	8.0	300	---	0.37	---	146	7	24	9	20	1	55	--	70	54[b]	
				3-20-53	8.2	400	---	0.25	---	177	14	25	11	34	7	49	--	48	114[b]	
D-776e 2S/7W-30R2	SE. of Chino; 230 feet E. of Euclid Ave., 30 feet S. of Bickmore St. Owner: Breen. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 233.	573	40	8-28-47[e]	6.7	575	290	0.00	0.0	329	28	35	9	29	16	74	8	--	138	
				10-22-53[e]	7.3	800	490	0.05	0.1	454	16	45	11	95	21	52	2	26	324	
				10-23-53[f]	7.7	735	500	0.10	0.0	440	20	47	7	98	20	54	2	--	327[b]	
D-776f 2S/7W-31E1	SE. of Chino; 2,112 feet W. of Pioneer Ave., 1,531 feet N. of Pine Ave. Owner: McCalister and Co. Use: Irrigation. Casing: 10 inches. S.B.Co. F.C.D. sample point No. 48.	556	275	9- 3-43[e]	8.1	348	216	0.07	---	173	20	15	6	35	13	28	--	31	138	
				9-18-43[e]	8.0	350	213	0.10	---	173	13	13	10	35	14	24	--	27	144	
D-776i 2S/7W-31L1	SE. of Chino; 350 feet W. of Pioneer Ave., 200 feet N. of Pine Ave. S.B. Co.F.C.D. sample point No. 309.	562	2,150	4- 5-48[e]	8.0	1,032	604	2.38	1.8	250	165	3	2	4	6	219	--	92	36	CO_3 = 45 ppm.
D-780b 3S/8W- 1F1	S. of Chino; 2,112 feet S. of Pine Ave., 42 feet E. of Pomona Rincon Rd. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 382.	537	60	6-15-49[e]	8.0	1,250	880	----	0.2	378	62	286	18	129	52	109	--	31	535	
				7-31-53[e]	7.5	1,310	940	0.39	0.9	373	62	318	21	125	55	100	2	30	538	
D-780h 3S/8W- 1L1	S. of Chino; 0.8 mile SE. of Pine Ave., 0.4 mile SW. of Pomona Rincon Rd. Use: Irrigation. S.B.Co.F.C.D. sample point No. 383.	755	-----	6-15-49[e]	8.0	1,490	896	----	0.3	437	252	4	4	4	13	338	--	92	64	CO_3 = 29 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-782h 3S/7W- 5B1	SE. of Chino; 1,400 feet S. of Chandler Ave., 25 feet W. of Cucamonga Ave. Use: Domestic. 4-foot by 4-foot pit. S.B.Co.F.C.D. sample point No. 517.	553	---	7-10-50[e]	7.7	529	321	0.05	0.0	273	20	22	11	52	10	40	--	33	172	
D-783e 3S/7W- 9D1	S. of Chino; 75 feet S. of McCarty Rd., 2,150 feet E. of Cucamonga Ave. Owner: United States Department of the Interior, Geological Survey, test well No. 1. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 310.	511	---	4-26-48[e]	7.1	508	424	0.44	1.2	203	39	90	9	20	9	88	3	68	86	
D-801 3S/7W- 4A1	SE. of Chino; 40 feet W. of Hellman Ave., 0.15 mile S. of Chandler St. Owner: McCarty Bros. Use Irrigation. Casing: 16 inches. Perforated 85-275. S.B.Co.F.C.D. sample point No. 381.	562	290	6-15-49[e]	8.0	505	307	----	0.0	254	24	28	12	56	16	38	--	29	204	
				5-31-50[e]	7.5	489	302	0.21	0.0	242	23	27	18	47	13	39	--	33	172	
				7-25-50[e]	7.8	531	332	0.33	0.0	259	24	14	14	56	13	18	--	17	194	
				10- 5-53[e]	7.6	548	323	0.15	0.2	258	20	31	15	58	15	38	2	28	208	
				10-23-53	7.9	544	325	0.00	0.2	254	20	32	10	58	13	38	2	--	198[b]	
D-801a 3S/7W- 5A1	SE. of Chino; 50 feet S. of Chandler Ave., 1,000 feet E. of Cucamonga Ave. Owner: Ross. Use: Irrigation. S.B.Co.F.C.D. sample point No. 516.	567	---	7-10-50[e]	7.5	377	239	0.11	0.3	171	17	23	12	36	5	31	--	38	110	
D-801b 3S/7W- 4D1	SE. of Chino; 4,000 feet W. of Hellman Ave., 100 feet S. of Chandler Ave. Owner: Ross. Use: Domestic. S.B.Co.F.C.D. sample point No. 515.	566	---	7-10-50[e]	7.6	676	426	0.02	0.2	305	29	61	13	68	17	51	--	32	240	
				10- 5-53[e]	7.5	643	396	0.19	0.3	264	24	71	12	60	16	58	1	37	218	
D-801c 3S/7W- 4H1	W. of Norco; 0.4 mile S. of Chandler Ave., 110 feet W. of Hellman Ave. Owner: McCarty Bros. Use: Irrigation. Casing: 6 inches. S.B.Co.F.C.D. sample point No. 514.	560	32	2-23-33[a]	---	582	---	0.08	---	265	32	30	3	58	16	48	--	33	211[b]	
				1-31-47	7.7	658	---	0.00	---	378	29	32	5	77	20	63	--	33	274[b]	
				7-10-50[e]	7.7	617	378	0.93	0.0	293	32	32	17	66	17	38	--	26	234	
				3-19-53	8.5	630	---	0.07	---	311	35	34	10	69	20	53	--	31	254[b]	
				10- 5-53[e]	7.7	560	329	0.13	0.2	261	25	34	9	58	15	40	2	30	206	
D-802h 3S/7W- 9A1	SE. of Chino; 1,125 feet W. of Hellman Ave., 160 feet S. of McCarty Rd., 10 feet S. of old well. Owner: McCarty Bros. Use: Domestic. S.B.Co.F.C.D. sample point No. 165.	548	80	10-11-37	---	889	---	0.14	---	428	33	29	44	97	19	71	--	22	320[b]	
				11- 5-45[e]	7.5	810	514	0.00	---	441	31	18	50	88	19	61	--	32	298	
				10-22-46	7.6	660	---	0.10	---	406	20	28	25	88	22	67	--	32	310[b]	
				6-26-50[e]	7.4	727	450	0.10	0.2	392	24	29	37	78	18	62	--	34	268	
				8-14-50[e]	7.4	731	474	0.00	0.2	400	24	27	28	78	19	47	--	29	273	
				9-13-50[e]	7.6	715	459	0.00	0.2	405	24	34	28	80	18	72	--	36	275	
				2-14-51[e]	7.4	732	478	0.00	0.3	405	20	26	20	77	17	63	--	34	262	
				9-11-51[e]	7.6	739	470	----	0.0	408	25	28	21	87	20	56	--	29	298	
				7- 7-52[e]	7.5	763	465	----	0.3	415	25	28	21	85	21	58	2	30	301	
				10-20-52[e]	7.3	708	467	----	0.2	410	24	16	23	90	19	49	2	26	301	
				10- 5-53[e]	7.3	763	453	0.13	0.3	403	19	30	21	84	23	50	2	26	330	
D-811a 3S/7W-10C1	W. of Norco; 600 feet SW. of River St., 0.22 mile NW. of Archibald Ave. Owner: Dale Kellogg. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 507.	592	220	7-29-48[c]	---	520	---	----	---	256	25	37	--	61	9	43	--	33	189[b]	
				6-26-50[e]	7.8	457	286	0.04	0.0	241	19	17	16	52	11	28	--	26	175	
				9-13-50[e]	8.0	448	288	0.00	0.2	243	21	26	43	50	10	36	--	32	168	
				11- 6-50[e]	7.8	454	296	0.04	---	232	21	14	--	49	11	26	--	25	168	
				6- 9-52[e]	7.6	400	283	0.05	0.7	227	23	19	11	51	11	36	--	31	172	
				10-20-52[e]	7.7	460	289	0.13	0.1	242	23	10	13	63	13	29	2	23	206	
				10-23-53	8.1	471	283	0.02	0.1	227	20	23	7	46	15	32	2	28	176	
D-811c 3S/7W-10G1	SW. of Norco; 600 feet SW. of River St., on line of Archibald Ave. produced. Use: Irrigation. S.B.Co.F.C.D. sample point No. 512.	528	---	7-10-50[e]	7.7	446	272	0.00	0.0	234	19	15	9	51	13	23	--	22	179	
				9-13-50[e]	8.0	436	270	0.00	0.2	239	20	24	12	48	10	37	--	33	161	
				9-11-51[e]	8.2	444	282	0.01	0.2	227	21	14	8	51	11	26	--	25	172	
				7- 7-52[e]	7.9	439	298	0.00	0.2	244	25	20	8	54	15	27	2	23	195	
				10-20-52[e]	7.8	462	295	0.05	0.2	242	23	12	13	60	9	29	2	25	189	
				10- 5-53[e]	7.7	500	286	0.08	0.1	251	20	21	10	55	15	30	2	24	197	

MINERAL ANALYSES OF GROUND WATERS

CONTINUED

Serial and [illegible] number	Location and description	Elevation of ground surface U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10[6] at 25°C.)	Total dissolved solids in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-812 2S/7W- 3N2	W. of Norco; 40 feet N. of McCarty Ave., 640 feet E. of Hellman Ave. Owner: McCarty Bros., well No. 2. Use: Irrigation. Casing: 16 inches. S.B. Co.F.C.D. sample point No. 513.	562	310	9-22-31[a]	---	380	---	----	---	---	18	--	--	--	--	--	--	--	---	
				7-10-50[e]	7.7	417	254	0.01	0.0	212	17	16	13	49	12	13	--	14	172	
				9-13-50[e]	7.8	405	259	0.00	0.2	218	19	26	10	51	8	31	--	29	161	
				3-11-51[e]	7.6	426	295	0.00	0.0	215	19	17	9	51	11	20	--	20	172	
				7- 7-52[e]	7.8	384	264	0.04	0.3	185	20	17	9	49	13	23	2	22	174	
				10- 5-53[e]	7.6	428	254	0.06	0.1	212	16	19	11	47	15	26	2	24	176	
D-812a 2S/7W- 3R1	W. of Norco; 4,963 feet S. of Chandler St. along Arc Weld Ave. and 88 feet NW. of Archibald Ave. Owner: Art Thompson. Use: Irrigation and domestic. S.B.Co.F.C.D. sample point No. 505.	585	222	6-26-50[e]	7.5	488	298	0.00	0.0	259	24	16	12	58	12	24	--	21	193	
				9-11-51[e]	7.6	502	330	0.00	0.0	254	26	17	10	62	14	24	--	20	210	
				6- 9-52[e]	7.8	460	313	0.07	0.5	251	28	18	6	64	13	31	--	25	213	
				10-20-52[e]	7.6	505	315	0.00	0.1	254	25	11	12	66	13	27	2	22	216	
				10- 5-53[e]	7.7	528	311	0.00	0.2	256	22	21	12	63	15	27	2	21	218	
				10-23-53	8.2	469	324	0.00	0.1	229	23	24	7	63	13	30	2	--	211[b]	CO_3 = 12 ppm.
D-812b 2S/7W- 3A1	W. of Norco; 55 feet S. of Chandler Ave., 50 feet W. of Archibald Ave. Owner: Fuller Rancho. Use: Irrigation. Casing: 16 inches. Perforated 70-152. S.B.Co.F.C.D. sample point No. 526.	582	168	3-27-50[c]	---	454	---	----	---	223	30	30	--	62	17	14	--	12	225[b]	
				7-25-50[e]	7.0	470	294	0.19	0.0	243	21	6	7	59	12	18	--	16	199	
				10- 5-53[e]	7.6	516	304	0.04	0.2	254	22	19	11	62	15	24	2	19	218	
D-812e 2S/7W- 3N2	SW. of Norco; 450 feet N. of McCarty Ave., 200 feet E. of Hellman Ave. Owner: W.G. McCarty. Use: Domestic. S.B.Co.F.C.D. sample point No. 506.	557	---	6-26-50[e]	7.4	709	436	0.02	0.2	392	24	23	24	80	18	49	--	28	271	
				9-11-51[e]	7.9	620	404	0.04	0.1	325	26	25	17	68	17	44	--	28	238	
				7- 7-52[e]	7.6	632	443	0.08	0.4	332	28	50	26	78	19	58	2	32	271	
				10- 5-53[e]	7.2	791	482	0.13	0.3	382	25	39	34	87	21	56	2	28	304	
D-813c 2S/7W- 2D1	W. of Norco; 2,376 feet E. of Archibald Ave., 65 feet S. of Chandler Ave. Owner: Fuller Rancho. Use: Irrigation. S.B.Co.F.C.D. sample point No. 502.	587	---	6-26-50[e]	7.6	444	280	0.06	0.0	218	26	13	12	48	10	26	--	26	163	
				8-14-50[e]	7.4	458	300	0.00	0.1	227	28	14	12	51	20	18	--	16	209	
				9-11-51[e]	7.7	460	296	0.00	---	220	28	12	10	51	13	27	--	25	180	
D-901 2S/7W- 4A1	SE. of Ontario; 55 feet S. of Ely St., 0.07 mile W. of Vineyard. Owner: Tony and Victor Di Carlo. Use: Domestic and irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 229.	839	348	8-27-47[e]	6.4	355	244	0.00	0.0	201	16	16	30	51	19	17	--	15	202	
				4- 7-48[e]	7.3	370	234	0.89	0.4	194	13	12	12	49	12	12	--	13	172	
				6- 9-52	7.9	360	225	0.10	0.8	185	10	9	17	45	9	17	1	20	149[b]	
				7- 1-53[e]	7.2	363	233	0.01	0.7	190	10	8	13	39	15	16	1	18	160	
D-904b 2S/7W-21L1	SE. of Chino; 40 feet W. of Walker Ave., 350 feet S. of Merrill Ave.. Owner: C.T. Merrill. Use: Domestic and irrigation. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 949.	653	207	2-23-33[a]	8.0	614	---	0.04	---	332	14	12	27	76	24	28	--	17	290	
				2-11-47	8.0	606	---	0.00	---	359	18	21	44	82	24	33	--	19	303[b]	
				5- 3-51	7.8	610	---	0.03	---	323	25	23	39	80	22	54	--	25	290[b]	
				2-29-52	7.8	520	---	0.06	---	311	11	22	34	71	17	35	--	24	248[b]	
				3-20-53	8.0	670	---	0.02	---	311	21	18	35	80	19	30	--	19	278[b]	
				7-17-53[e]	7.7	643	420	0.03	0.7	320	20	17	45	76	24	28	2	17	290	
				7-21-54	8.0	658	443	0.04	0.3	349	22	28	48	92	23	30	2	--	324[b]	
D-904e 2S/7W-21L2	SE. of Chino; 375 feet S. of Merrill Ave., 50 feet W. of Walker Ave., produced, 40 feet SW. of D-904b. Owner: C.T. Merrill. Use: Irrigation. Casing: 12 inches. Perforated 30-172.	652	172	6-12-40	---	600	---	----	---	378	30	24	16	70	21	64	--	35	261[b]	
D-907a 2S/7W-34C1	SE. of Chino; 50 feet S. of Schleisman Ave., 2,693 feet W. of Archibald Ave. Use: Irrigation. S.B.Co.F.C.D. sample point No. 504.	606	---	6-26-50[e]	7.5	580	355	0.00	0.0	282	30	27	21	70	18	25	--	18	250	
				9-11-51[e]	7.6	585	382	0.00	---	276	33	20	15	77	18	24	--	16	264	
D-907b 2S/7W-34E2	NW. of Norco; 0.31 mile N. of Chandler Ave., 0.49 mile W. of Archibald Ave. Owner: F.L. Fleming. Use: Domestic and irrigation. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 379.	575	75	6-15-49[e]	8.0	772	486	----	---	349	53	49	13	92	29	41	--	21	347	
				5-31-50[e]	7.2	788	510	0.10	---	356	55	61	18	91	30	39	--	19	349	
				10- 5-53[e]	7.4	982	636	0.00	0.1	373	63	116	15	117	33	50	3	20	428	
				10-23-53[f]	7.9	840	611	0.10	0.2	277	66	118	16	99	27	47	2	--	359[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-907c 2S/7W-34A1	NW. of Norco; 1,200 feet S. of Schleisman Ave., 60 feet W. of Archibald Ave. Owner: F.L. Fleming. Use: Irrigation. Casing: 7 inches. S.B. Co.F.C.D. sample point No. 503.	597	---	6-26-50[e]	7.6	702	422	0.00	0.0	336	46	20	26	87	22	30	--	17	308	
D-907h 2S/7W-34F1	NW. of Norco; 200 feet N. of Chandler Ave., 0.5 mile E. of Hellman Ave. S.B.Co.F.C.D. sample point No. 380.	571	---	6-15-49[e]	8.0	532	282	----	0.0	256	28	28	11	62	19	29	--	21	234	
				5-31-50[e]	7.4	490	305	0.11	0.0	244	25	28	13	53	19	32	--	25	210	
				10- 5-53[e]	7.8	643	386	0.17	0.2	266	40	41	20	71	21	34	2	22	262	
D-908a 2S/7W-27J1	SE. of Chino; 300 feet W. of Archibald Ave., 0.6 mile S. of Cloverdale Rd. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 648.	622	---	8- 2-51[e]	7.6	967	592	0.04	0.0	403	72	60	37	104	28	51	--	22	375	
				7- 1-53[e]	7.7	762	485	0.03	0.7	353	47	36	19	82	29	41	2	21	323	
D-909 2S/7W-22K1	SE. of Chino; 0.38 mile W. of Archibald Ave., 60 feet S. of Merrill Ave. Owner: Leonard Teichrieb. Use: Irrigation. Casing: 12 inches. Perforated 99-103; 171-174; 198-201; 213-222; 234-245. S.B.Co.F.C.D. sample point No. 303.	658	295	11-21-48[e]	7.0	995	584	0.17	0.1	520	29	39	40	125	38	40	--	16	465	
				3- 1-49[e]	7.2	911	555	0.50	0.0	495	25	41	35	114	32	41	--	18	417	
				10-24-49[e]	7.4	706	420	0.00	0.0	388	21	30	38	87	25	16	--	10	319	
				9-26-50[k]	7.6	---	---	0.09	---	---	19	--	44[m]	75	22	23	--	--	278[b]	
				8- 2-51[e]	7.5	823	505	0.00	0.2	432	26	29	27	107	27	31	--	15	380	
				1- 8-52[e]	7.8	470	282	0.04	---	233	18	11	21	56	13	22	--	20	194	
				4-26-52[e]	7.4	840	571	0.04	0.1	532	29	29	23	121	34	43	--	17	443	
				7- 1-53[e]	7.5	923	553	0.00	0.5	495	25	30	28	108	38	38	2	16	424	
				3-26-54[k]	7.7	---	---	0.00	---	---	25	--	35[m]	78	33	36	--	19	430[b]	
				8-19-54[k]	7.5	---	---	0.00	---	---	28	--	30[m]	87	49	39	--	17	419[b]	
D-909a 2S/7W-27A2	NW. of Norco; 180 feet W. of Archibald Ave., 10 feet S. of Cloverdale Rd., produced. Owner: John Imbach. Use: Irrigation and domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 646.	643	310	2-21-33[a]	---	895	---	0.04	---	363	78	--	--	--	--	--	--	--	---	
				8- 2-51[e]	8.2	859	518	0.00	---	368	50	45	33	108	28	30	--	15	387	
D-909c 2S/7W-22E1	SE. of Chino; 60 feet S. of Merrill Ave., 1,000 feet E. of Vineyard Ave. Owner: Marshall Corp. Casing: 16 inches. Perforated 68-72; 75-95; 102-105; 108-122; 202-206; 218-230; 244-265; 272-286; 291-310. S.B.Co.F.C.D. sample point No. 645.	688	311	8- 2-51[e]	7.5	460	261	0.02	0.2	217	13	12	27	55	15	11	--	11	197	
D-909d 2S/7W-27A1	NW. of Norco; 230 feet W. of Archibald Ave., 10 feet S. of Cloverdale Rd., produced, 50 feet W. of well D-909a. Owner: John Imbach. Use: Domestic. S.B.Co.F.C.D. sample point No. 647.	642	310	2-21-33[a]	7.9	899	---	0.05	---	375	77	44	8	111	33	33	--	15	411	
				1-21-47	7.4	1,148	---	0.10	---	524	78	70	62	165	46	46	--	14	602	
				4-23-50	7.6	1,030	---	0.04	---	512	64	63	50	147	41	43	--	15	536[b]	
				8- 2-51[e]	7.4	961	578	0.00	0.0	422	62	54	33	128	33	17	--	8	456	
				2-29-52	7.7	910	---	0.07	---	500	43	56	39	134	36	46	--	24	483[b]	
				3-19-53	7.8	1,010	---	0.06	---	506	50	62	36	138	42	35	--	14	517[b]	
				7- 1-53[e]	7.5	980	679	----	0.6	464	49	59	45	128	38	32	2	13	477	
				7-21-54	7.9	990	715	0.02	0.1	508	48	59	48	147	37	32	2	--	520[b]	
D-909f 2S/7W-22C1	SE. of Chino; 0.51 mile S. of Edison Ave., 0.5 mile W. of Archibald Ave. Owner: Baker, Van de Kamp, et al. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 302.	677	90	4-21-48[e]	7.2	448	316	0.00	0.1	222	16	17	21	56	15	20	--	18	200	
				8-21-51[e]	7.4	473	288	0.00	0.2	227	18	16	26	56	15	11	--	10	200	
				1- 8-52[e]	8.0	350	219	0.00	0.0	193	10	10	10	41	11	19	--	22	146	
				7- 1-53[e]	7.0	636	398	0.00	0.6	320	37	16	25	77	23	29	2	18	286	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-909g 2S/7W-12H2	SE. of Chino; 390 feet W. of Archibald Ave., 75 feet S. of Merrill Ave. Owner: [illegible]. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 304. Cal Engineers sample point No. 10 of Exchange Orange Products Co. investigation.	657	---	4-21-48[e]	7.0	871	565	0.22	0.2	395	48	43	35	114	32	30	--	14	418	
				4-22-49[k]	7.4	---	---	0.10	---	---	39	--	32[m]	101	26	25	--	--	359[b]	
				6-24-49[k]	7.3	---	---	0.04	---	---	39	--	34[m]	96	26	27	--	--	347[b]	
				9-28-49[k]	7.4	---	---	0.06	---	---	38	--	32[m]	94	25	28	--	--	337[b]	
				10-24-49[e]	7.6	801	538	0.00	0.0	371	44	38	52	100	30	20	--	10	370	
				12-30-49[k]	7.4	---	---	0.00	---	---	47	--	38[m]	108	32	31	--	--	401[b]	
				3-30-50[k]	7.3	---	---	0.09	---	---	38	--	47[m]	96	26	27	--	--	347[b]	
				6-30-50[k]	7.3	---	---	0.06	---	---	43	--	39[m]	99	31	31	--	--	375[b]	
				9-28-50[k]	7.3	---	---	0.07	---	---	52	--	40[m]	113	36	30	--	--	376[b]	
				12-27-50[k]	7.7	---	---	0.07	---	---	50	--	39[m]	120	32	35	--	--	431[b]	
				4- 2-51[k]	7.6	---	---	0.04	---	---	52	--	33[m]	104	47	36	--	15	453[b]	
				8- 2-51[e]	7.8	889	522	0.00	Tr.	405	48	43	42	113	31	20	--	10	411	
				10-16-51[k]	7.6	---	---	0.06	---	---	44	--	33[m]	98	32	34	--	16	376[b]	
				1- 8-52[e]	7.7	940	605	0.07	0.2	394	62	38	56	110	34	31	--	14	413	
				3-11-52[k]	7.6	---	---	0.02	---	---	57	--	39[m]	98	58	37	--	14	483[b]	
				9- 5-52[k]	8.0	---	---	0.11	---	---	50	--	35[m]	98	40	34	--	15	409[b]	
				3- 6-53[k]	7.7	---	---	0.60	---	---	49	--	34[m]	97	50	37	--	15	447[b]	
				7- 1-53[e]	7.6	923	582	0.00	0.5	437	46	36	39	115	36	34	2	15	443[b]	
				9- 4-53[k]	8.1	---	---	0.70	---	---	49	--	17[m]	96	33	35	--	17	375[b]	
				3-26-54[k]	7.6	---	---	0.30	---	---	53	--	33[m]	96	44	30	--	13	420[b]	
				8-19-54[k]	7.5	---	---	0.70	---	---	45	--	32[m]	92	41	32	--	15	398[b]	
D-909h 2S/7W-12H2	SE. of Chino; 680 feet N. of Merrill Ave., 0.2 mile W. of Archibald Ave. Owner: Baylies Bros. Use: Irrigation. Casing: 14 inches. Perforated 112-116; 136-142; 167-175; 195-220; 236-255; 265-275; 285-295. S.B.Co.F.C.D. sample point No. 681.	661	311	1- 8-52[e]	7.5	550	336	0.00	0.0	247	31	14	28	62	20	23	--	17	237	
				7- 1-53[e]	7.5	496	307	0.00	0.5	239	21	14	23	57	18	21	2	17	216	
D-910a 2S/7W-15E1	SE. of Chino; 700 feet N. of Edison Ave., 0.75 mile W. of Archibald Ave. S.B.Co.F.C.D. sample point No. 290.	709	---	1-15-51[e]	7.5	493	325	0.13	0.0	202	17	18	37	55	20	18	--	15	220	
				1- 8-52[e]	7.9	510	352	0.00	0.0	228	24	17	46	61	17	22	--	18	222	
				7- 1-53[e]	7.0	420	271	0.03	0.6	193	16	13	27	43	16	21	2	21	174	
D-910b 2S/7W-15N1	SE. of Chino; 70 feet S. of Edison Ave., 2,380 feet W. of Archibald Ave. Owner: Exchange Orange Product Co. S.B.Co.F.C.D. sample point No. 644. Cal Engineers sample point No. 5 of Exchange Orange Products Co. investigation.	710	---	4-22-49[k]	7.3	---	---	0.08	---	---	28	--	41[m]	67	18	20	--	--	241[b]	
				6-24-49[k]	7.3	---	---	0.04	---	---	26	--	39[m]	63	17	21	--	--	227[b]	
				9-28-49[k]	7.5	---	---	0.13	---	---	39	--	78[m]	83	23	24	--	--	302[b]	
				12-30-49[k]	7.4	---	---	0.09	---	---	36	--	54[m]	79	24	25	--	--	296[b]	
				3-30-50[k]	7.3	---	---	0.02	---	---	39	--	82[m]	84	23	24	--	--	304[b]	
				6-30-50[k]	7.3	---	---	0.09	---	---	31	--	27[m]	67	22	22	--	--	258[b]	
				9-28-50[k]	7.5	---	---	0.09	---	---	35	--	44[m]	80	23	23	--	--	294[b]	
				12-27-50[k]	7.5	---	---	0.04	---	---	37	--	88[m]	78	28	26	--	--	310[b]	
				4- 2-51[k]	7.4	---	---	0.04	---	---	39	--	81[m]	73	33	26	--	15	318[b]	
				8- 2-51[e]	7.5	587	345	0.00	Tr.	249	30	21	41	71	19	22	--	16	255	
				10-16-51[k]	7.3	---	---	0.04	---	---	36	--	54[m]	87	32	31	--	16	349[b]	
				1- 8-52[e]	7.8	710	444	0.00	0.1	293	38	24	68	82	27	27	--	16	341	
				3-11-52[k]	7.4	---	---	0.00	---	---	37	--	38[m]	73	38	29	--	16	338[b]	
				9- 5-52[k]	7.6	---	---	0.17	---	---	31	--	38[m]	67	31	27	--	17	295[b]	
				3- 6-53[k]	7.6	---	---	0.00	---	---	35	--	64[m]	76	35	28	--	15	334[b]	
				7- 1-53[e]	7.1	606	385	0.00	0.6	266	33	22	47	62	27	26	2	17	267	
				9- 4-53[k]	7.9	---	---	0.40	---	---	31	--	17[m]	65	28	28	--	17	277[b]	
				3-26-54[k]	7.5	---	---	0.20	---	---	33	--	46[m]	70	32	26	--	16	306[b]	
				8-19-54[k]	7.4	---	---	0.20	---	---	32	--	24[m]	67	27	25	--	16	278[b]	
D-910c 2S/7W-15A1	E. of Chino; 0.55 mile S. of Chino Ave., 0.2 mile W. of Archibald Ave. Owner: Pietro and Domenico Enrico. Use: Domestic. Casing: 16 inches. Gravel 94-106; 118-130; 266-270; 290-298; 310-342; 354-362; 378-394; 398-424.	731	436	12- 2-31[a]	---	331	---	0.12	---	183	4	13	4	40	10	19	--	23	141[b]	
				2-11-47	7.7	331	---	0.00	---	194	6	15	11	42	11	20	--	23	150[b]	
				9-30-53	8.0	317	200	0.00	0.2	188	4	14	7	41	8	19	2	23	135[b]	
				7-21-54	8.0	329	212	0.00	0.2	195	6	14	5	42	10	18	2	--	146[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-910f 2S/7W-15Q1	SE. of Chino; 1,400 feet S. of Edison Ave., 1,800 feet W. of Archibald Ave. Owner: Exchange Orange Products Co. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 289. Cal Engineers sample point No. 7 of Exchange Orange Products Co. investigation.	692	327	3- 1-49[e]	7.3	427	266	0.44	0.2	210	16	19	25	52	13	23	--	21	184	
				4-22-49[k]	7.3	---	---	0.11	---	---	27	--	38[m]	79	22	20	--	--	288[b]	
				6-24-49[k]	7.3	---	---	0.11	---	---	27	--	38[m]	79	22	20	--	--	288[b]	
				9-28-49[k]	7.3	---	---	0.06	---	---	16	--	20[m]	71	16	21	--	--	243[b]	
				10-24-49[e]	7.3	632	374	----	Tr.	270	30	24	66	72	22	18	--	12	270[b]	
				12-30-49[k]	7.4	---	---	0.00	---	---	11	--	14[m]	72	14	20	--	--	237[b]	
				3-30-50[k]	7.4	---	---	0.09	---	---	26	--	46[m]	78	23	24	--	--	289[b]	
				6-30-50[k]	7.4	---	---	0.00	---	---	28	--	76[m]	85	27	26	--	--	323[b]	
				9-28-50[k]	7.4	---	---	0.02	---	---	28	--	77[m]	85	30	24	--	--	336[b]	
				12-27-50[k]	7.5	---	---	0.04	---	---	26	--	53[m]	78	24	26	--	--	293[b]	
				4- 2-51[k]	7.4	---	---	0.04	---	---	30	--	63[m]	47	50	27	--	--	322[b]	
				8- 2-51[e]	7.4	407	253	0.00	0.0	185	18	22	20	46	14	22	--	22	172	
				1- 8-52[e]	7.5	760	500	0.00	0.1	336	43	22	58	94	27	29	--	15	344	
				4-28-52[e]	7.3	370	270	0.04	0.2	193	20	14	22	54	13	18	--	17	187	
				9- 5-52[k]	7.9	---	---	0.00	---	---	80	--	26[m]	122	60	46	--	15	551[b]	
				3- 6-53[k]	7.5	---	---	0.20	---	---	72	--	24[m]	108	65	42	--	14	536[b]	
				7- 1-53[e]	7.2	446	290	0.00	0.6	207	20	16	30	39	23	20	1	18	193	
				9- 4-53[k]	8.0	---	---	1.20	---	---	52	--	9[m]	96	35	37	--	17	384[b]	
				10-23-53[f]	6.6	850	673	0.00	0.2	183	150	24	51	99	29	28	2	--	366[b]	
				3-26-54[k]	7.2	---	---	0.30	---	---	72	--	21[m]	108	73	42	--	14	569[b]	
				8-19-54[k]	7.1	---	---	0.10	---	---	66	--	15[m]	134	52	43	--	15	548[b]	
D-910i 2S/7W-15P1	SE. of Chino; 2,700 feet W. of Archibald Ave., 1,300 feet S. of Edison Ave. Owner: Exchange Orange Products Co. Use: Domestic. Cal Engineers sample point No. 6 of Exchange Orange Products Co. investigation.	693	---	4-22-49[k]	7.3	---	---	0.07	---	---	23	--	34[m]	62	16	20	--	--	221[b]	
				6-24-49[k]	7.3	---	---	0.06	---	---	21	--	31[m]	59	16	21	--	--	213[b]	
				9-28-49[k]	7.4	---	---	0.09	---	---	22	--	--	60	18	21	--	--	224[b]	
				12-30-49[k]	7.4	---	---	0.01	---	---	24	--	45[m]	61	20	22	--	--	238[b]	
				3-30-50[k]	7.3	---	---	0.06	---	---	28	--	78[m]	70	20	23	--	--	257[b]	
				6-30-50[k]	7.4	---	---	0.06	---	---	32	--	35[m]	75	23	25	--	--	282[b]	
				9-28-50[k]	7.5	---	---	0.09	---	---	28	--	39[m]	78	21	21	--	--	281[b]	
				12-27-50[k]	7.4	---	---	0.04	---	---	30	--	64[m]	72	25	27	--	--	291[b]	
				4- 2-51[k]	7.4	---	---	0.02	---	---	31	--	54[m]	58	31	24	--	16	272[b]	
				10-16-51[k]	7.3	---	---	0.06	---	---	36	--	48[m]	84	29	33	--	18	329[b]	
				3-11-52[k]	7.4	---	---	0.03	---	---	46	--	31[m]	78	46	32	--	15	384[b]	
				9- 5-52[k]	7.8	---	---	0.11	---	---	50	--	31[m]	113	47	40	--	16	475[b]	
				3- 6-53[k]	7.4	---	---	0.00	---	---	59	--	40[m]	106	63	37	--	13	523[b]	
				9- 4-53[k]	7.9	---	---	0.00	---	---	68	--	21[m]	107	50	45	--	17	472[b]	
				3-26-54[k]	7.3	---	---	0.00	---	---	72	--	52[m]	110	67	37	--	13	550[b]	
				8-19-54[k]	7.2	---	---	0.90	---	---	80	--	41[m]	132	52	39	--	14	543[b]	
D-910j 2S/7W-15Q2	SE. of Chino; 2,180 feet W. of Archibald Ave., 2,495 feet S. of Edison Ave. Owner: Exchange Orange Products Co. Use: Irrigation. Casing: 8 inches. Cal Engineers sample point No. 8 of Exchange Orange Products Co. investigation.	680	251	4-22-49[k]	7.9	---	---	0.10	---	---	21	--	40[m]	73	19	24	--	--	260[b]	
				6-29-49[k]	7.3	---	---	0.06	---	---	13	--	13[m]	51	13	19	--	--	181[b]	
				9-28-49[k]	7.4	---	---	0.13	---	---	13	--	18[m]	46	13	17	--	--	168[b]	
				12-30-49[k]	7.4	---	---	0.00	---	---	6	--	5[m]	38	11	19	--	--	140[b]	
				3-30-50[k]	7.4	---	---	0.04	---	---	10	--	16[m]	42	11	16	--	--	150[b]	
				6-30-50[k]	7.4	---	---	0.09	---	---	11	--	22[m]	41	12	16	--	--	152[b]	
				9-28-50[k]	7.3	---	---	0.07	---	---	12	--	27[m]	40	13	16	--	--	153[b]	
				12-27-50[k]	7.5	---	---	0.07	---	---	12	--	26[m]	38	19	18	--	--	173[b]	
				4- 2-51[k]	7.3	---	---	0.04	---	---	14	--	20[m]	41	14	18	--	19	160[b]	
				10-16-51[k]	7.4	---	---	0.02	---	---	15	--	19[m]	47	15	22	--	21	179[b]	
				3-11-52[k]	7.3	---	---	0.00	---	---	17	--	18[m]	40	27	20	--	17	211[b]	
				9- 5-52[k]	7.7	---	---	0.26	---	---	21	--	26[m]	48	23	22	--	19	214[b]	
				3- 6-53[k]	7.6	---	---	0.30	---	---	17	--	22[m]	41	25	20	--	17	205[b]	
				9- 4-53[k]	7.9	---	---	0.40	---	---	21	--	12[m]	43	24	20	--	18	206[b]	
				3-26-54[k]	7.5	---	---	0.20	---	---	16	--	28[m]	36	22	17	--	17	180[b]	
				8-19-54[k]	7.2	---	---	0.00	---	---	20	--	42[m]	46	20	19	--	18	197[b]	
D-911 2S/7W-10M1	E. of Chino; 90 feet S. of Chino Ave., 0.12 mile E. of Vineyard Ave. Owner: P.J. Crevolin. Use: Domestic and irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 284.	747	375	10-22-53	8.1	420	262	0.00	0.1	190	18	18	23	50	14	18	1	--	182[b]	
				7-21-54	7.8	455	292	0.00	0.3	203	23	20	34	57	15	19	1	--	204[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Series and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-911a 2S/7W-10C1	S. of Ontario; 140 feet W. of Ontario Ave., 30 feet S. of Riverside Dr. Owner: Sunprune. S.B.Co.F.C.D. sample point No. 277. Cal Engineers sample point No. 3 of Exchange Orange Products Co. investigation.	777	---	4- 7-48[e]	---	1,195	819	----	---	540	--	--	--	167	42	--	--	--	594	
				3- 1-49[e]	7.6	1,200	944	2.40	0.2	517	88	43	99	160	42	42	--	14	572	
				6-24-49[k]	7.2	-----	---	0.65	---	---	71	--	72[m]	153	33	35	--	--	518[b]	
				9-28-49[k]	7.4	-----	---	1.00	---	---	74	--	50[m]	130	33	35	--	--	460[b]	
				10-24-49[e]	7.4	994	621	0.55	0.0	398	77	38	59	124	35	29	--	12	454	
				12-30-49[k]	7.3	-----	---	1.00	---	---	73	--	90[m]	121	34	37	--	--	442[b]	
				3-30-50[k]	7.2	-----	---	1.00	---	---	71	--	80[m]	119	28	35	--	--	412[b]	
				6-30-50[k]	7.2	-----	---	1.00	---	---	77	--	75[m]	111	35	34	--	--	421[b]	
				9-28-50[k]	7.2	-----	---	0.95	---	---	76	--	83[m]	114	33	36	--	--	420[b]	
				12-27-50[k]	7.3	-----	---	0.74	---	---	80	--	92[m]	115	30	40	--	--	410[b]	
				1-15-51[e]	7.3	1,040	746	1.35	0.0	378	82	25	86	127	31	38	--	16	445	
				4- 2-51[k]	7.3	-----	---	1.00	---	---	84	--	90[m]	113	35	39	--	17	426[b]	
				10-16-51[k]	7.7	-----	---	1.00	---	---	81	--	84[m]	113	35	44	--	18	426[b]	
				3-11-52[k]	7.3	-----	---	0.89	---	---	85	--	60[m]	101	47	44	--	18	445[b]	
				9- 5-52[k]	7.6	-----	---	0.74	---	---	71	--	51[m]	90	40	38	--	17	389[b]	
				3- 6-53[k]	7.7	-----	---	1.00	---	---	75	--	81[m]	91	43	38	--	17	404[b]	
				9- 4-53[k]	8.0	-----	---	1.40	---	---	63	--	25[m]	85	37	35	--	17	364[b]	
				3-26-54[k]	7.5	-----	---	1.30	---	---	88	--	33[m]	94	43	41	--	18	411[b]	
				8-19-54[k]	7.5	-----	---	0.90	---	---	66	--	52[m]	84	34	33	--	17	349[b]	
D-911d 2S/7W-10R1	E. of Chino; 0.25 mile S. of Chino Ave., 40 feet W. of Archibald Ave. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 297.	744	---	1- 8-52[e]	8.1	550	338	0.18	0.0	247	30	14	32	67	18	22	--	--	241	
D-911g 2S/7W-10L1	Ontario; 130 feet S. of Chino Ave., 40 feet W. of Ontario Rd. Owner: Persons. Use: Irrigation and domestic. S.B.Co.F.C.D. sample point No. 285. Cal Engineers sample point No. 4 of Exchange Orange Products Co. investigation.	753	---	4-15-48[e]	7.3	904	572	0.14	0.4	354	71	28	84	120	31	23	--	10	429	
				3- 1-49[e]	7.4	927	711	0.21	0.1	351	71	29	83	119	32	31	--	--	430	
				4-22-49[k]	7.3	-----	---	0.21	---	---	70	--	71[m]	123	32	23	--	--	439[b]	
				6-24-49[k]	7.3	-----	---	0.22	---	---	66	--	49[m]	137	30	28	--	--	466[b]	
				9-28-49[k]	7.5	-----	---	0.06	---	---	68	--	124[m]	127	30	25	--	--	440[b]	
				10-24-49[e]	7.4	885	542	0.19	Tr.	344	73	28	73	113	28	21	--	10	398	
				12-30-49[k]	7.4	-----	---	0.09	---	---	69	--	90[m]	108	31	26	--	--	397[b]	
				3-30-50[k]	7.4	-----	---	0.04	---	---	71	--	91[m]	111	25	24	--	--	380[b]	
				6-30-50[k]	7.2	-----	---	0.10	---	---	72	--	43[m]	107	32	29	--	--	399[b]	
				9-28-50[k]	7.5	-----	---	0.11	---	---	77	--	53[m]	106	29	24	--	--	384[b]	
				12-27-50[k]	7.5	-----	---	0.04	---	---	78	--	87[m]	102	31	27	--	--	382[b]	
				4- 2-51[k]	7.3	-----	---	0.04	---	---	82	--	81[m]	107	32	28	--	13	399[b]	
				10-16-51[k]	7.6	-----	---	0.09	---	---	68	--	60[m]	99	35	29	--	14	386[b]	
				3-11-52[k]	7.5	-----	---	0.04	---	---	75	--	45[m]	93	51	30	--	13	442[b]	
				9- 5-52[k]	7.6	-----	---	0.11	---	---	77	--	47[m]	96	42	34	--	15	412[b]	
				3- 6-53[k]	7.6	-----	---	0.00	---	---	70	--	57[m]	96	42	28	--	13	412[b]	
				9- 4-53[k]	7.9	-----	---	0.20	---	---	60	--	23[m]	91	36	28	--	14	375[b]	
				3-26-54[k]	7.5	-----	---	0.20	---	---	74	--	64[m]	95	42	24	--	12	410[b]	
				8-19-54[k]	7.5	-----	---	0.50	---	---	73	--	39[m]	93	39	27	--	13	392[b]	
D-911h 2S/7W- 3Q1	SE. of Ontario; 0.3 mile W. of Archibald Ave., 200 feet N. of Riverside Dr. Owner: Lawrence Borba. Casing: 4 inches. S.B.Co.F.C.D. sample point No. 282.	780	---	4-14-48[e]	6.6	956	544	0.15	0.3	412	48	24	50	122	37	7	--	3	455	
				10-24-49[e]	7.3	739	519	0.36	0.0	400	45	27	45	106	29	14	--	7	383	
D-911i 2S/7W-10G1	S. of Ontario; 200 feet E. of Ontario Rd., 0.25 mile S. of Riverside Dr. Owner: James DeWitt. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 286.	766	---	4-15-48[e]	7.2	1,235	766	1.35	0.3	600	86	40	35	156	40	63	--	20	553	
				3- 1-49[e]	6.8	1,162	556	2.21	0.2	517	90	46	46	131	34	71	--	25	468	
				10-24-49[e]	7.0	1,120	678	1.29	0.0	473	89	45	86	126	33	57	--	22	450	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25° C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-912 2S/7W- 3A1	SE. of Ontario; 45 feet W. of Archibald Ave., 50 feet S. of Ely St. Owner: Mt. View Mutual Water Co. Use: Irrigation and domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 269. Ontario Sewer Farm Supply.	832	542	3-25-48[e] 3-29-49[e] 5-19-50[k] 6-12-51[k] 10-22-53	6.4 7.7 7.7 7.6 7.9	442 419 --- --- 393	279 256 312 299 236	0.33 0.46 0.06 0.06 0.00	0.3 0.0 --- 0.8 0.2	218 220 216 219 200	27 22 13 14 9	16 11 18 16 10	5 24 15 18 12	57 51 53 37 47	13 15 12 19 10	12 21 19 19 20	-- -- 2 1 2	12 20 18 20 --	196 187 180 172 158[b]	
D-912a 2S/7W- 3H1	SE. of Chino; 1,215 feet W. of Archibald Ave., 1,370 feet S. of Ely St. Owner: Geovia. Use: Irrigation. Casing: 16 inches. Perforated 210-216; 236-246; 252-268; 278-288; 297-327. S.B.Co.F.C.D. sample point No. 311.	817	330	4-28-48[e]	6.9	410	263	0.14	0.3	194	18	9	24	51	17	14	--	14	196	
D-912c 2S/7W- 3M1	SE. of Ontario; 0.24 mile N. of Riverside Dr., 0.2 mile E. of Vineyard Ave. Owner: N. Migleeta. S.B.Co.F.C.D. sample point No. 268.	790	---	3-25-48[e]	7.3	366	228	0.03	0.1	181	11	27	2	40	13	10	---	12	166	
D-912d 2S/7W- 2D1	SE. of Ontario; 0.25 mile S. of Ely St., 250 feet E. of Archibald Ave. Owner: Tom Carnesi. S.B.Co.F.C.D. sample point No. 291.	815	---	1-15-51[e]	7.5	379	281	0.09	0.0	195	13	6	15	45	8	19	--	22	146	
D-912e 2S/7W- 2E1	SE. of Ontario; 0.5 mile N. of Riverside Dr., 100 feet E. of Archibald Ave. Owner: Mt. View School. Use: Domestic. S.B.Co.F.C.D. sample point No. 275.	805	---	4- 7-48[e] 3- 1-49[e] 10-24-49[e] 1-15-51[e]	7.5 7.1 7.2 7.4	596 600 595 601	379 395 387 381	0.13 0.38 0.19 0.11	0.4 0.1 0.1 0.0	269 273 278 276	29 25 27 15	22 24 24 18	38 42 141 39	78 75 77 75	18 19 19 16	25 27 37 25	-- -- -- --	17 18 23 17	267 265 271 255	
D-914 2S/7W-11D1	SE. of Ontario; 30 feet E. of Archibald Ave., 175 feet S. of Riverside Dr. Owner: C.C. Nickols. Use: Domestic and irrigation. Casing: 17 inches to 130 feet, 14 inches to 230 feet. S.B.Co.F.C.D. sample point No. 276.	780	303	10-22-53	7.6	510	324	0.03	0.2	224	24	17	38	65	15	21	2	--	225[b]	
D-915 2S/7W-14E1	SE. of Ontario; 1,267 feet N. of Edison Ave., 185 feet E. of Archibald Ave. Owner: Otreeny. S.B.Co.F.C.D. sample point No. 288.	718	---	4-15-48[e] 3- 1-49[e] 10-24-49[e] 1- 8-52[e] 7- 1-53[e]	7.1 7.2 7.2 7.5 7.2	704 746 732 680 628	420 431 440 419 399	0.11 0.42 0.13 0.00 0.00	0.2 0.0 0.1 0.0 0.6	339 344 351 321 310	37 37 41 32 26	27 28 29 17 18	35 43 52 34 32	96 93 95 81 74	24 26 27 24 24	21 33 25 25 25	-- -- -- -- 2	12 18 13 -- 16	337 338 346 299 284	
D-915d 2S/7W-23C1	SE. of Chino; 0.5 mile N. of Merrill Ave., 0.35 mile E. of Archibald Ave. Owner: C & B and Baxter Ranches. S.B.Co.F.C.D. sample point No. 308.	685	---	8- 3-51[e] 1- 8-52[e] 7- 1-53[e]	7.7 7.8 7.3	530 560 535	362 342 332	0.00 0.00 0.00	0.0 0.0 0.6	259 270 266	22 24 24	17 14 19	21 26 27	66 67 64	17 19 17	23 24 25	-- -- 2	18 18 19	232 243 231	
D-915f 2S/7W-14G1	E. of Chino; 0.5 mile S. of Chino Ave., 350 feet E. of Archibald Ave. Owner: F. Marello. Use: Domestic. S.B.Co. F.C.D. sample point No. 299.	729	---	1- 8-52[e]	7.6	680	445	0.00	0.0	343	32	21	48	88	25	31	--	17	324	
D-915g 2S/7W-14Q1	SE. of Chino; 3,100 feet N. of Merrill Ave., 2,840 feet E. of Archibald Ave. Owner: J.C. Blair. Use: Domestic. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 307.	692	160	1- 8-52[e]	7.6	690	428	0.00	0.0	301	47	25	22	88	20	27	--	16	303	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-916 2S/7W-23E1	SE. of Chino; 120 feet E. of Archibald Ave., 1,267 feet N. of Merrill Ave. Owner: A. Ohlin. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 308.	669	104	4-21-48[e]	7.0	1,391	766	0.14	0.2	423	115	49	112	174	45	36	--	11	618	
				3- 1-49[e]	7.1	1,342	914	0.23	0.1	442	35	58	129	164	49	45	--	14	609	
				10-24-49[e]	7.3	721	1,032	0.00	0.0	476	129	69	147	179	50	30	--	9	650	
				8- 2-51[e]	8.2	1,370	851	0.00	0.0	508	100	78	105	183	45	33	--	10	642	
				1- 8-52[e]	7.3	1,390	826	0.00	---	520	100	72	118	183	48	43	--	12	656	
				7- 1-53[e]	7.1	1,320	856	0.00	0.4	554	84	84	97	166	57	44	2	13	646	
				10-23-53[f]	7.7	1,275	858	0.00	0.0	583	85	72	94	185	48	40	3	12	659[b]	
				7-21-54	7.7	1,315	870	0.00	0.0	605	78	88	90	187	48	45	2	--	660[b]	
D-916b 2S/7W-23J1	SE. of Chino; 0.2 mile W. of Sumner Ave., 0.3 mile N. of Cloverdale Rd. Use: Irrigation and domestic. S.B. Co.F.C.D. sample point No. 649.	667	---	8- 2-51[e]	7.7	522	312	0.00	0.0	246	43	14	15	64	11	25	--	21	206	
D-916d 2S/7W-22A1	SE. of Chino; 0.75 mile S. of Edison Ave., 0.2 mile W. of Archibald Ave. Owner: Baxter-Vandenburg Dairy. Use: Domestic. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 301.	670	120	4-21-48[e]	7.1	686	419	0.14	0.3	320	33	21	41	89	22	31	--	18	309	
				3- 1-49[e]	7.2	571	385	0.14	0.2	244	35	22	32	67	20	26	--	19	249	
				10-24-49[e]	7.4	721	429	0.00	0.0	344	33	27	64	83	26	32	--	18	312	
				1-15-51[e]	7.2	626	424	0.12	0.0	281	34	20	36	72	20	24	--	17	259	
				8- 2-51[e]	7.5	839	506	0.03	0.1	386	33	26	51	102	27	37	--	18	367	
				1- 8-52[e]	7.4	620	372	0.00	0.0	261	39	18	35	72	21	24	--	16	260	
				4-28-52[e]	7.2	690	488	0.05	0.2	364	36	28	45	93	27	37	--	19	344	
				7- 1-53[e]	7.3	783	494	0.01	0.6	383	36	25	50	83	32	42	2	21	340	
D-916e 2S/7W-23D1	SE. of Chino; 0.5 mile N. of Merrill Ave., 385 feet E. of Archibald Ave. Owner: Sumner Dairy. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 306.	682	---	1- 8-52[e]	7.8	480	313	0.02	---	228	22	16	24	58	17	22	--	19	215	
				7- 1-53[e]	7.2	535	342	0.00	0.6	254	27	13	30	55	23	24	2	18	233	
D-918c 2S/7W-35G1	SE. of Chino; 185 feet E. of Harrison Ave., 845 feet N. of Citrus St. Owner: Muller Ranche. Use. Irrigation. S.B.Co.F.C.D. sample point No. 501.	589	---	6-26-50[e]	7.6	441	274	0.12	0.0	223	23	11	18	50	12	25	--	24	173	
				7- 7-52[e]	7.8	440	311	0.06	0.4	244	25	19	10	52	14	33	2	28	189	
D-918d [illegible]	N. of Norco; 400 feet N. of Citrus St., 0.18 mile W. of Sumner Ave. Owner: J.A. Ortega. Use: Domestic and irrigation. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 499.	598	196	2-21-33[a]	7.6	698	---	0.02	---	314	45	29	13	79	20	38	--	23	279	
				1-21-47	7.8	696	---	0.00	---	319	51	35	14	77	19	61	--	33	271	
				6-26-50[e]	7.6	719	443	0.12	0.0	333	34	28	25	76	17	56	--	32	260	CO_3 = 5 ppm.
				9-13-50[e]	7.5	687	401	0.00	0.3	341	44	24	28	72	16	45	--	28	248	
				9-11-51[e]	7.4	682	427	0.00	0.0	317	40	25	19	62	23	50	--	30	248	
				3-18-52	8.0	610	---	0.06	---	354	43	31	16	54	17	70	--	43	205[b]	
				7- 7-52[e]	7.9	645	436	0.01	0.2	329	45	35	19	66	23	58	2	33	261	
				10-20-52[e]	7.2	695	458	0.00	0.0	344	45	33	23	83	17	50	2	28	278	
				3-20-53	8.3	540	---	0.05	---	354	39	25	20	78	19	64	--	34	273[b]	
				9-22-53[e]	7.7	734	442	0.04	0.5	342	41	35	22	76	18	56	2	31	264	
				10-23-53	8.2	755	448	0.02	0.1	322	43	37	15	72	21	60	2	33	266	CO_3 = 10 ppm.
D-918e 2S/7W-35J2	N. of Norco; 200 feet S. of Citrus St., 792 feet W. of Sumner Ave. Owner: Agilani Dairy. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 500.	603	96	6-26-50[e]	7.5	667	393	0.05	0.0	320	35	25	27	74	20	46	--	28	250	
				8-14-50[e]	7.5	655	417	0.00	0.2	320	37	26	19	73	17	38	--	24	252	
				11- 6-50[e]	7.6	653	415	0.04	0.0	305	36	25	22	70	16	37	--	25	240	
				2-14-51[e]	7.5	643	405	0.05	0.3	300	34	19	17	69	14	50	--	32	232	
				9-11-51[e]	8.1	630	391	0.00	0.1	288	35	20	18	70	16	39	--	26	240	
				7-21-52[e]	7.7	574	394	0.06	0.0	302	38	20	15	68	18	46	3	29	243	
				10-20-52[e]	7.6	624	399	0.01	0.0	310	39	28	19	78	12	49	2	30	265	
				9-22-53[e]	7.5	656	384	0.06	0.4	307	45	18	18	70	16	52	2	32	242	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-918l 2S/7W-35K1	SE. of Chino; 210 feet S. of Citrus St., 370 feet W. of Harrison Ave. Owner: Fuller Rancho. Use: Domestic. S.B.Co.F.C.D. sample point No. 511.	585	---	7-10-50e	7.4	830	501	0.01	0.0	415	47	42	7	88	22	48	--	25	312	
				7- 7-52e	7.5	728	455	0.04	0.2	322	51	51	13	82	20	58	2	30	264	
				10-20-52e	7.8	286	191	0.04	0.1	159	11	4	13	43	6	15	2	20	131	
				9-22-53e	7.7	304	181	0.08	0.5	163	14	7	9	29	10	22	1	30	111	
D-919 2S/7W-36M1	N. of Norco; 55 feet S. of Citrus St., 35 feet E. of Sumner Ave. Owner: Nibo Agilani. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 525.	613	190	7-25-50e	7.8	507	313	0.19	0.0	243	26	8	10	60	11	26	--	22	195	
				9-13-50e	7.6	506	316	0.00	0.2	251	30	27	14	62	10	28	--	24	195	
				9-11-51e	7.7	507	325	0.00	0.0	239	29	20	14	62	11	30	--	25	198	
				7-21-52e	7.6	460	320	0.04	0.1	232	31	22	7	54	15	30	2	25	197	
D-919a 2S/7W-36K1	NW. of Norco; 400 feet E. of Cleveland Ave., 200 feet S. of Citrus St. Owner: River View Ranch. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 530.	580	---	8-14-50e	7.7	412	265	0.00	0.2	228	18	12	14	59	8	11	--	12	178	
				9-11-51e	7.6	404	264	0.00	0.0	205	19	12	9	54	8	17	--	18	168	
				7- 7-52e	7.9	364	256	0.03	0.2	210	18	11	13	53	9	15	2	16	170	
				9-22-53e	7.9	395	234	0.05	0.4	203	16	9	14	53	8	20	2	21	164	
D-919b 2S/7W-36F1	NW. of Norco; 35 feet W. of Cleveland Ave., 0.2 mile N. of Citrus St. Owner: Acin Brothers Dairy. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 497.	617	---	6-26-50e	7.6	403	344	0.04	0.0	259	30	17	27	74	8	27	--	21	218	
				8-14-50e	7.5	550	350	0.11	0.2	268	31	18	20	74	9	15	--	13	221	
				9-11-51e	7.8	550	338	0.00	0.0	254	30	21	19	74	8	29	--	23	216	
				7- 7-52e	8.0	436	298	0.03	0.1	229	26	19	8	50	17	31	2	25	195	
				9-22-53e	7.9	547	328	0.13	0.4	251	30	15	21	72	8	29	2	22	214	
D-919d 2S/7W-36D1	NW. of Norco; 0.2 mile E. of Sumner Ave., 40 feet S. of Orange St. Owner: C.H. McVay. Use: Irrigation and domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 509.	610	196	7-10-50e	7.5	649	343	0.01	0.0	256	34	21	16	66	11	26	--	21	209	
				9-22-53e	7.8	626	366	0.04	0.4	278	40	23	19	72	12	45	2	30	231	
D-919f 2S/7W-36J1	N. of Norco; 3,300 feet S. of Schleisman Ave., 60 feet W. of Adams Ave. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 171.	580	---	11-29-45e	7.9	414	236	0.00	---	199	23	5	16	55	8	14	--	15	171	
				6-15-49e	---	---	241	----	0.0	156	26	15	12	57	10	24	--	22	184	CO_3 = 14 ppm.
				5-31-50e	7.4	479	286	0.16	0.0	246	29	16	10	62	9	31	--	26	193	
				8-14-50e	7.6	486	304	0.07	0.3	249	26	12	15	68	9	15	--	14	208	
				2-14-51e	7.7	516	327	0.09	0.2	261	26	11	12	71	4	36	--	28	196	
				6- 9-52e	7.7	480	327	0.01	0.3	278	30	14	8	78	9	30	--	22	232	
				10-20-52e	7.7	521	330	0.06	0.1	271	28	20	8	76	7	28	2	22	218	
				9-22-53e	7.9	590	350	0.06	0.4	310	34	15	5	84	10	34	2	22	252	
D-919i 2S/7W-36G1	NW. of Norco; 60 feet E. of Cleveland Ave., 1,430 feet N. of Citrus St. Owner: Robert Harvey. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 496.	619	---	6-26-50e	7.2	930	622	0.01	0.0	354	92	33	42	128	15	44	--	--	382	
				8-14-50e	7.2	839	550	0.00	0.2	382	69	35	31	119	15	32	--	16	357	
				11- 6-50e	7.6	830	538	0.05	0.0	364	63	26	31	119	14	34	--	17	356	
				2-14-51e	7.2	797	550	0.05	0.2	361	53	28	26	111	12	46	--	24	325	
				9-11-51e	7.5	820	507	0.06	0.0	359	58	30	26	116	14	38	--	19	348	
				7- 7-52e	7.7	895	688	0.05	0.1	342	103	36	27	141	18	48	2	20	424	
				10-20-52e	7.3	829	536	0.10	0.0	351	68	36	32	127	12	42	2	20	360	
				9-22-53e	7.5	645	391	0.08	0.4	300	36	22	25	84	10	40	2	26	250	
D-919p 2S/7W-36M2	NW. of Norco; 60 feet N. of Citrus St., 275 feet E. of Sumner Ave. Owner: R.C. Porter. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 498.	612	---	6-26-50e	7.5	662	465	0.17	0.0	292	45	26	24	80	13	41	--	26	254	
				8-14-50e	7.4	622	398	0.00	0.4	285	42	29	20	77	14	29	--	20	249	
				9-11-51e	7.5	616	387	0.00	0.0	268	43	24	17	75	14	34	--	23	244	
				7- 7-52e	7.8	645	402	0.03	0.1	268	46	30	19	79	16	20	2	14	263	
				9-22-53e	7.8	645	378	0.17	0.4	283	42	23	17	78	13	36	2	24	250	
D-920c 2S/7W-25M1	NW. of Norco; 150 feet E. of Sumner Ave., 2,000 feet N. of Orange Ave. Owner: Glen Gage. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 510.	626	---	7-10-50e	7.5	435	269	0.00	0.0	210	20	15	17	41	12	24	--	26	149	
				9-22-53e	7.8	495	294	0.09	0.4	239	25	17	17	55	14	32	2	26	195	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

[illegible] and [illegible] numbers	Location and description	Elevation of [illegible]	Total depth of well, in feet	Date sampled	pH	Conductivity (10⁶ at 21°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: [illegible]	[illegible]	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
								CHINO BASIN - (continued)												
[illegible] 2S/7W-24L1	N. of Norco; 150 feet W. of Cleveland Ave., 2,400 feet N. of Cloverdale Rd. Owner: [illegible]. Use: Irrigation and domestic.	675	500	[illegible]-21-35[a]	---	1[illegible]6	---	0.02	---	94	5	6	0	11	7	20	--	42	56[b]	
				1-21-47	---	434	---	0.00	---	187	11	9	11	39	10	21	--	25	138[b]	
D-925 [illegible]	SE. of Ontario; 300 feet N. of Mission Blvd., 1,000 feet E. of Adams Ave. Owner: A.L. Holloway. Use: Domestic.	839	175	11-13-51[a]	---	382	---	0.04	---	180	22	6	9	43	12	26	--	27	157[b]	
				1-13-46	7.7	453	---	0.00	---	189	46	10	10	59	10	33	--	27	188[b]	
				4-15-4[illegible]	8.3	446	---	0.00	---	199	38	10	13	56	9	26	--	24	177[b]	
[illegible] 2S/6W- 6N1	SE. of Ontario; 0.20 mile N. of Riverside Dr., 300 feet E. of Adams Ave. Owner: Willis Derrato. Use: Domestic.	803	---	9-30-53	7.6	424	247	0.00	0.2	176	32	8	19	47	9	29	1	29	154[b]	
[illegible] 2S/6W-18F1	N. of Norco; 0.51 mile N. of Belle Grove Ave., 0.45 mile E. of Adams Ave. Owner: [illegible]. Use: Irrigation and domestic. Casing: 12 inches. Perforated [illegible]; 155-[illegible]; 245-278; [illegible].	723	300	2-21-35[a]	---	367	---	0.02	---	1[illegible]	9	6	8	49	7	21	--	23	151[b]	
				1-11-47	---	374	---	0.00	---	200	22	11	8	56	6	25	--	25	165[b]	
[illegible] 2S/6W-30J2	SE. of Chino; 600 feet N. of 68th St., 634 feet W. of Wineville Ave. Owner: Jack Rauch. Use: Irrigation. Casing: [illegible] S.B.C.F.C.D. sample point No. 493.	646	---	6-27-50[c]	7.5	4[illegible]	2[illegible]	0.00	0.2	107	29	11	18	61	6	19	--	--	177	
				8-14-50[c]	7.6	4[illegible]	2[illegible]	0.[illegible]	0.2	195	30	11	12	58	8	11	--	12	176	
				8-22-51[c]	7.9	410	271	0.0[illegible]	0.0	183	28	12	12	57	6	24	--	23	166	
				7-21-52[c]	7.7	370	250	0.00	0.1	178	25	13	7	49	13	23	2	22	167	
				10-20-52[c]	7.7	416	260	0.12	0.1	1[illegible]	26	17	16	61	8	16	2	15	201	
				9-22-53[c]	7.7	4[illegible]	270	0.06	0.4	190	[illegible]	13	16	60	7	21	2	20	176	
[illegible] 2S/6W-30P1	N. of Norco; 1,550 feet E. of Adams Ave., 1,260 feet N. of Schleisman Ave. Owner: [illegible]. Use: Irrigation. [illegible] S.B.C.F.C.D. sample point No. 495.	[illegible]	---	6-26-50[c]	7.7	3[illegible]	2[illegible]	0.14	0.0	203	16	9	17	51	6	21	--	23	152	
				8-14-50[c]	7.8	3[illegible]	2[illegible]	0.11	0.2	215	26	7	12	52	8	12	--	14	163	
				8-22-51[c]	8.3	3[illegible]	2[illegible]	0.06	0.0	193	21	16	12	52	5	24	--	26	152	
				10- 5-53[c]	7.7	411	240	0.[illegible]	0.2	198	16	12	14	53	8	21	2	21	164	
[illegible]	N. of Norco; 60 feet S. of Olive Ave., 1,450 feet W. of Wineville Ave. Owner: [illegible]. Use: Irrigation. Casing: 10 inches. S.B.Co.F.C.D sample point No. 490.	632	146	6-13-50[c]	7.4	44[illegible]	[illegible]	0.52	0.2	226	24	12	--	56	8	26	--	--	170	
				8-14-50[c]	7.5	446	[illegible]	0.00	0.3	[illegible]	25	13	--	67	13	15	--	--	220	
				8-24-51[c]	8.0	450	[illegible]	0.08	0.0	217	22	12	--	59	7	25	--	--	178	
				7-21-52[c]	7.7	396	270	0.02	0.2	210	22	12	--	53	13	25	2	--	187	
				10-20-52[c]	7.6	432	[illegible]	0.00	0.1	227	21	14	10	63	2	27	2	26	165	
				9-22-53[c]	7.5	426	[illegible]	0.01	0.4	215	16	11	10	57	9	22	2	21	181	
				10-25-53	7.9	4[illegible]	[illegible]	0.00	0.1	212	17	17	8	53	9	26	2	--	169[b]	
[illegible]	N. of Norco; 150 feet E. of Adams Ave., 1,260 feet N. of Schleisman Ave. Owner: [illegible]. Use: [illegible]. Perforated [illegible]; [illegible] S.B.C.F.C.D. sample point No. 494.	635	141	6-26-50[c]	7.4	513	319	0.00	0.0	243	30	11	24	76	9	26	--	19	224	
				8-14-50[c]	7.3	538	337	0.06	0.2	251	31	14	27	78	12	16	--	12	242	
				8-14-51[c]	7.5	437	278	0.00	0.3	227	17	12	15	57	5	24	--	24	164	
				9-11-51[c]	7.5	430	263	0.04	0.0	215	22	10	11	58	7	19	--	20	172	
				7-21-52[c]	7.6	413	264	0.04	0.1	220	23	15	7	57	12	26	2	22	193	
				9-22-53[c]	7.6	426	264	0.11	0.5	217	16	9	13	55	9	22	2	21	174	
[illegible] 2S/6W-31C1	N. of Norco; 750 feet S. of Schleisman Ave., 1,400 feet E. of Adams Ave., top of hill. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. [illegible].	630	---	6-13-50[c]	7.8	488	274	0.00	0.1	[illegible]	30	17	52	66	7	35	--	28	194	
				8-22-51[c]	8.0	490	301	0.00	---	239	26	12	15	65	8	29	--	24	196	
				10-20-52[c]	7.9	554	344	0.00	0.0	298	26	17	8	69	23	37	3	23	229	
				10- 5-53[c]	7.7	446	262	0.03	0.2	[illegible]	21	14	11	57	8	22	2	21	178	
[illegible]	NE. of Norco; 225 feet S. of Olive Ave., 0.45 mile E. of Wineville Ave. Owner: A. Luetkemeyer. Use: Irrigation. Casing: 14 inches. Perforated 18-25; [illegible]. S.B.C.F.C.D. sample point No. 395.	607	202	2-23-35[a]	8.1	210	---	0.01	---	95	11	9	Tr.	19	5	23	--	42	69	
				7-27-4[illegible][c]	7.0	514	[illegible]	0.06	0.0	[illegible]	52	38	24	69	10	48	--	33	215	
				6-13-50[c]	7.2	[illegible]	[illegible]	0.34	0.[illegible]	297	75	75	25	96	16	60	--	30	306	
				7-21-50[c]	7.[illegible]	[illegible]	670	0.2[illegible]	0.1	217	85	10[illegible]	13	117	18	[illegible]	--	26	366	
				8-13-50[c]	7.3	1,140	770	0.[illegible]	0.2	[illegible]	100	108	31	140	22	98	--	--	439	
				11- 6-50[c]	7.4	1,050	770	0.18	0.[illegible]	[illegible]	97	160	7	133	22	70	--	26	425	
				2-14-51[c]	7.3	1,040	[illegible]	0.14	0.[illegible]	[illegible]	101	112	21	110	13	86	--	35	349	
				8-22-51[c]	7.4	1,110	7[illegible]	0.10	---	322	94	181	4	131	20	81	--	31	410	
				7-21-52[c]	7.4	1,070	7[illegible]	0.1[illegible]	0.[illegible]	339	101	176	9	124	23	105	4	36	403	
				10-20-52[c]	7.2	1,0[illegible]	7[illegible]	0.[illegible]	0.[illegible]	329	98	198	5	137	19	86	4	30	422	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10[8] at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CHINO BASIN - (continued)														
D-934 2S/6W-17M1	NE. of Norco; 600 feet E. of Wineville Ave., 130 feet N. of Belle Grove Ave. Owner: C.N. Marietta. Use: Domestic. Casing: 7 inches.	714	104	2- 2-33[a]	---	715	---	0.02	---	186	98	34	8	98	10	29	--	18	286[b]	
				9-30-37	---	738	---	0.10	---	198	102	35	20	101	10	30	--	18	294[b]	
				11- 1-46	---	617	---	0.10	---	214	85	32	19	101	9	32	--	19	289[b]	
				4-15-48	---	606	---	0.00	---	206	79	27	18	92	8	22	--	16	263[b]	
				3-17-52	7.9	470	---	0.07	---	214	53	20	17	77	6	34	--	25	217[b]	
				3-19-53	8.3	430	---	0.04	---	183	43	14	16	60	8	27	--	24	183[b]	
D-935b 2S/6W- 8A1	E. of Chino; 115 feet W. of Etiwanda Ave., 40[illegible] feet S. of Riverside Ave. Owner: C.E. Faulhaber. Use: Domestic. Casing: 7 inches.	785	149	11-12-31[a]	---	411	---	0.03	---	180	20	--	--	---	--	--	--	--	---	
				5-26-47	7.8	357	---	0.00	---	180	20	14	7	55	6	23	--	23	162[b]	
				3-30-48	8.4	325	---	0.00	---	175	20	15	7	50	6	21	--	23	150[b]	
				5- 4-51	8.0	340	---	0.00	---	177	18	14	7	48	5	14	--	18	140[b]	
				5-14-53	8.2	390	---	0.03	---	183	21	12	10	49	8	16	--	18	155	
D-936 2S/6W- 5A1	SE. of Ontario; 180 feet W. of Etiwanda Ave., 78 feet S. of Patton Rd. Owner: Charles Sterns and Son. Use: Irrigation and domestic. Casing: 20 inches. Gravel 150-162; 194-200; 206-210; 230-245; 288-370; 376-389; 405-410.	845	438	11-12-31[a]	---	321	---	0.04	---	177	7	12	4	43	7	20	--	24	136[b]	
				12-13-46	8.1	254	---	0.00	---	149	5	13	4	36	4	21	--	23	106[b]	
				3-30-48	8.5	267	---	0.00	---	181	9	11	6	37	6	27	--	34	117[b]	
				4-15-48	8.2	311	---	0.00	---	184	6	10	6	43	5	18	--	23	128[b]	
				5- 3-51	7.9	300	---	0.00	---	183	7	10	6	43	5	28	--	32	128[b]	
				5-15-53	8.4	170	---	0.02	---	79	9	6	Tr.	12	4	21	--	49	46[b]	
D-936b 1S/6W-32P1	SE. of Ontario; 0.3 mile E. of Wineville Ave., 0.25 mile N. of Patton Rd. Owner: Joe Filippi. Use: Irrigation. Casing: 1[illegible] inches. S.B.Co.F.C.D. sample point No. 930.	860	500	6- 1-53[e]	7.9	341	204	0.00	0.2	193	9	9	7	38	10	17	2	21	139	
D-939 2S/6W-16M1	NE. of Norco; 2[illegible] feet N. of Weller St., 27[illegible] feet W. of Martin Ave. Owner: Santa Ana River Water Co. Use: Irrigation and domestic. Casing: 10 inches.	727	250	2-27-33[a]	---	430	---	0.01	---	174	32	10	5	56	7	24	--	24	169[b]	
				12-13-46	---	430	---	Tr.	---	180	35	20	13	64	7	29	--	25	189[b]	
				4-15-48	---	450	---	0.00	---	194	36	17	14	62	7	24	--	22	184[b]	
D-940a 2S/6W-21B1	NE. of Norco; 75 feet S. of Malachite St., 0.70 mile E. of Etiwanda Ave. Owner: Santa Ana River Water Co. Use: Irrigation and domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 487.	689	200	2-23-33[a]	8.0	562	---	0.06	---	159	60	34	5	64	7	40	--	30	190	
				2-11-47	7.8	435	---	0.00	---	192	37	16	16	64	7	26	--	23	189	
				4-15-48	7.9	440	---	0.00	---	193	37	14	14	62	7	28	--	25	184[b]	
				6-13-50[e]	7.5	463	290	0.29	0.0	184	39	14	21	58	6	23	--	--	161	
				8-14-53[e]	7.6	424	263	----	0.5	166	37	18	16	48	6	31	2	31	147	
D-940d 2S/6W-21Q1	Mira Loma; 150 feet S. of 60th St., 0.12 mile E. of Marlatt St. Owner: C.U. Gardner. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 488.	658	113	6-13-50[e]	7.7	483	330	0.18	0.0	169	52	22	15	53	6	35	--	33	156	
				8-14-50[e]	7.8	493	301	0.46	0.1	171	55	26	10	59	9	23	--	21	184	
				2-14-51[e]	7.8	510	332	0.00	0.2	176	53	19	23	58	2	37	--	34	156	
				8-22-51[e]	8.7	510	308	0.02	0.0	166	55	23	11	60	5	38	--	33	170	
				7-21-52[e]	7.7	485	340	0.04	0.1	176	61	28	8	62	10	42	2	31	197	
				10-20-52[e]	7.9	505	325	0.05	0.1	163	63	19	19	64	5	33	2	28	180	
				8-14-53[e]	7.6	610	378	0.00	0.5	200	66	25	27	74	8	42	3	29	218	
				10-23-53[f]	8.0	702	350	0.10	0.0	206	80	42	32	86	6	47	2	--	240[b]	
D-940e 2S/6W-27D2	E. of Mira Loma; 1,200 feet E. of Bain St., 60 feet S. of Limonite Ave., 80 feet NE. of house. Owner: B. Pfennighausen. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 481.	650	108	6-13-50[e]	7.2	1,980	1,380	0.40	0.6	364	397	120	20	122	55	203	--	45	532	
				7-22-51[e]	8.1	1,650	1,029	0.38	0.1	295	317	109	18	103	41	181	--	48	424	
D-940b 2S/6W-27D3	E. of Mira Loma; 950 feet E. of Bain St., 40 feet S. of Limonite Ave., 150 feet NW. of house. Owner: B. Pfennighausen. Use: Domestic. Casing: 8 inches. S.B.Co.F.C.D. sample point No. 482.	653	60	6-13-50[e]	8.8	943	555	0.70	0.8	36	210	37	7	7	5	182	--	91	38	CO_3 = 25 ppm.
				7-25-50[e]	9.5	879	516	0.62	0.8	34	190	38	3	8	3	163	--	92	32	CO_3 = 23 ppm.
				8-22-51[e]	9.2	840	499	0.76	0.5	68	166	60	3	10	2	158	--	90	36	CO_3 = 14 ppm.
				7-21-52[e]	9.2	671	438	0.76	1.4	49	150	45	1	9	3	150	1	90	34	CO_3 = 17 ppm.
				8-14-53[e]	8.9	928	530	0.62	2.0	76	192	40	7	11	4	165	2	89	42	CO_3 = 12 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (ECx10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-9401 2S/6W-22N1	E. of Mira Loma; 900 feet E. of Bain St., 100 feet N. of Limonite Ave. Owner: B. Pfennighausen. Use: Not used, artesian well. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 483.	654	128	6-13-50[e]	9.7	461	310	0.92	0.9	0	75	19	3	0	4	91	--	92	18	CO_3 = 70 ppm.
				7-25-50[e]	10.0	460	315	1.00	0.8	0	76	13	0	2	2	86	--	93	14	CO_3 = 43 ppm.
				8-22-51[e]	9.7	450	303	0.70	0.6	15	72	29	0	1	Tr.	82	--	98	4	CO_3 = 38 ppm.
				7-21-52[e]	9.9	399	300	0.76	2.0	--	72	28	Tr.	3	0	98	1	97	6	CO_3 = 38 ppm.
				8-14-53[e]	9.6	443	204	0.67	4.0	7	70	31	1	0	2	92	1	96	6	CO_3 = 41 ppm.
D-952 2S/6W-26D1	W. of Pedley; 50 feet S. of Limonite Ave., 0.61 mile W. of Garnet St. Owner: Jurupa Heights Water Co., well No. 1. Use: Irrigation and domestic. Casing: 16 inches. Gravel 97-100; 101-113.	690	114	2-21-33[a]	---	579	---	0.21	---	134	77	36	8	36	16	56	--	43	156[b]	
				5-26-47	---	597	---	0.20	---	232	76	45	18	51	21	64	--	40	214[b]	
				4-15-48	---	603	---	0.20	---	180	76	44	22	44	20	61	--	41	192[b]	
				5-17-51	7.5	660	---	0.13	---	189	85	41	53	48	20	78	--	--	202[b]	
				3-18-52	7.7	610	---	0.20	---	195	82	84	24	49	22	76	--	44	213[b]	
				3-19-53	8.0	890	---	0.16	---	262	85	96	19	72	33	76	--	34	315[b]	
D-952a 2S/6W-23G1	N. of Pedley; 110 feet S. of Pedley St., 50 feet E. of U.P.R.R. Owner: Jurupa Heights Water Co., well No. 2. Use: Irrigation and domestic.	710	120	2-21-33[a]	---	761	---	0.16	---	201	84	58	13	58	26	62	--	35	252[b]	
				4-16-48	---	826	---	0.05	---	257	85	82	29	67	30	70	--	34	290[b]	
				5-18-51	7.6	820	---	0.11	---	268	81	102	41	68	30	93	--	41	293[b]	
				3-18-52	8.0	620	---	0.13	---	232	64	100	8	46	27	76	--	42	226[b]	
				3-19-53	7.8	880	---	0.14	---	268	82	95	41	72	32	84	--	37	311[b]	
D-952e 2S/6W-22Q1	W. of Pedley; 0.6 mile W. of Bain St., at end of road, 200 feet S. of 60th St. Owner: J.W. Webb. Use: Domestic and irrigation. 4-foot pit to 20 feet, then 6-inch casing. S.B.Co.F.C.D. sample point No. 484.	656	80	6-13-50[e]	7.2	1,060	720	0.19	0.5	292	143	60	21	78	38	90	--	36	352	
				8-14-53[e]	7.1	995	641	0.15	1.0	280	133	72	25	77	35	82	4	34	334	
D-952f 2S/6W-22P2	W. of Pedley; 0.4 mile E. of Bain St., 20 feet S. of 60th St. Owner: Mattison. Use: Domestic. Casing: 6 inches. S.B.Co.F.C.D. sample point No. 485.	654	30	6-13-50[e]	7.3	637	477	0.38	0.8	156	96	31	9	40	22	53	--	38	188	
				7-25-50[e]	7.6	629	414	0.51	0.5	156	96	17	15	46	20	49	--	35	194	
				7-21-52[e]	7.4	600	450	0.29	0.9	142	109	38	7	49	18	58	2	39	197	
				8-14-53[e]	7.2	617	396	0.27	1.3	149	95	32	14	41	22	52	2	37	193	
D-952g 2S/6W-22L2	E. of Mira Loma; 0.3 mile E. of Bain St., 40 feet N. of 60th St. Owner: A.E. Mace. Use: Domestic. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 486.	665	120	6-13-50[e]	7.4	681	446	0.33	0.6	159	102	33	16	41	23	58	--	39	194	
				7-21-52[e]	7.6	447	322	0.16	0.9	112	76	27	5	32	14	50	2	44	138	
				8-14-53[e]	7.5	486	310	0.20	1.3	117	75	24	9	28	16	44	2	41	134	
D-959 2S/6W-12M1	NW. of Riverside; 800 feet E. of Agate St., 300 feet S. of Mission Blvd. Owner: J.C. Cote. Use: Domestic. Casing: 6 inches.	796	36	11-12-31[a]	7.8	672	---	0.22	---	339	23	56	8	52	36	54	--	30	276	
				6-30-37	---	760	---	0.34	---	332	35	91	10	62	38	54	--	28	311[b]	
				8-16-39	---	760	---	----	---	262	41	101	12	58	38	50	--	27	310	
				11- 1-46	7.3	806	---	0.10	---	284	53	128	79	80	46	59	--	25	348[b]	
				4-16-48	8.0	813	---	0.00	---	313	51	94	45	68	41	61	--	28	338[b]	
				10-22-53	8.4	826	516	0.06	---	232	61	79	17	59	37	55	1	28	299	CO_3 = 24 ppm.
D-1002b 1S/7W- 9J1	E. of Ontario; 650 feet W. of Vineyard Ave., 106 feet S. of Arrow Highway. Owner: Arrow Route Water Co. Use: Irrigation. Casing: 16 inches. Perforated 378-420; 428-491; 510-517; 530-536; 590-630; 651-670; 674-700; 722-728. S.B.Co.F.C.D. sample point No. 1,017.	1,164	745	12- 1-31[a]	---	351	---	0.19	---	189	6	---	--	--	--	--	--	--	---	
				3-21-47	8.2	263	---	0.00	---	115	5	34	16	29	12	18	--	24	120	CO_3 = 8 ppm.
				5- 3-51	8.0	290	---	0.00	---	177	2	38	8	41	8	21	--	25	135[b]	
				5-14-53	7.9	390	---	0.01	---	183	11	22	21	46	10	20	--	21	157	
				1- 4-54[e]	7.5	385	224	0.09	0.3	176	7	23	29	45	13	16	2	17	164	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (ECx10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-1005a 1S/7W-28R1	SE. of Ontario; 50 feet E. of Baker Ave., 575 feet S. of Mission Blvd. Owner: Peach Park Water Co. Use: Irrigation and domestic. Casing: 16 inches. Cal Engineers sample point No. 1 of Exchange Orange Products Co. investigation.	907	351	4-22-49[k]	7.3	---	---	----	---	---	13	--	14[m]	50	11	16	--	--	170[b]	
				6-24-49[k]	7.3	---	---	0.04	---	---	11	--	15[m]	67	11	14	--	--	213[b]	
				9-28-49[k]	7.3	---	---	0.06	---	---	10	--	16[m]	48	11	14	--	--	165[b]	
				12-30-49[k]	7.4	---	---	0.01	---	---	11	--	14[m]	42	12	14	--	--	154[b]	
				3-30-50[k]	7.4	---	---	0.09	---	---	12	--	18[m]	44	11	14	--	--	155[b]	
				6-30-50[k]	7.4	---	---	0.10	---	---	12	--	18[m]	44	12	14	--	--	159[b]	
				9-28-50[k]	7.3	---	---	0.09	---	---	12	--	28[m]	46	10	15	--	--	156[b]	
				12-27-50[k]	7.6	---	---	0.02	---	---	13	--	23[m]	45	12	15	--	--	162[b]	
				4- 2-51[k]	7.5	---	---	0.00	---	---	13	--	24[m]	46	11	16	--	17	160[b]	
				10-16-51[k]	7.6	---	---	0.02	---	---	12	--	20[m]	43	12	20	--	22	157[b]	
				2-11-52[k]	7.7	---	---	0.05	---	---	22	--	18[m]	39	18	15	--	16	171[b]	
				9- 5-52[k]	7.9	---	---	0.07	---	---	12	--	15[m]	36	16	16	--	19	156[b]	
				3- 6-53[k]	7.7	---	---	Tr.	---	---	9	--	19[m]	36	23	16	--	16	184[b]	
				9- 4-53[k]	8.1	---	---	0.50	---	---	8	--	5[m]	35	16	16	--	18	153[b]	
				3-26-54[k]	7.8	---	---	Tr.	---	---	11	--	19[m]	34	18	13	--	15	159[b]	
				7-21-54	7.8	348	222	0.02	0.5	185	9	15	16	48	10	15	1	--	161[b]	
				8-19-54[k]	7.6	---	---	0.30	---	---	10	--	12[m]	37	15	15	--	17	154[b]	
D-1006 1S/7W-33E1	SE. of Ontario; 700 feet E. of Grove Ave., 625 feet N. of Francis St. Owner: Noyes Water Co. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 231.	875	393	8-27-47[e]	6.4	354	245	0.00	0.0	200	14	18	30	56	17	16	--	14	210	
				4- 8-52[e]	7.9	220	198	0.12	0.6	90	15	30	1	28	4	16	--	28	86	
				6- 9-53	7.4	476	294	0.08	0.8	263	16	12	12	62	16	17	2	14	221[b]	
				7- 1-53[e]	6.8	485	336	0.00	0.7	261	17	12	8	56	20	18	1	15	221	
D-1007a 1S/7W-34M1	SE. of Ontario; 140 feet E. of Vineyard Ave., 85 feet S. of Francis St. Owner: Ralph Weiler. Use: Irrigation and domestic. Cal Engineers sample point No. 2 of Exchange Orange Products Co. investigation.	866	---	12- 2-31[a]	---	363	---	0.12	---	183	11	13	7	44	12	16	--	18	159[b]	
				12-13-46	---	360	---	0.00	---	198	14	12	11	51	11	18	--	18	173[b]	
				6-24-49[k]	7.3	---	---	0.09	---	---	16	--	14[m]	53	13	17	--	--	186[b]	
				9-28-49[k]	7.3	---	---	0.06	---	---	13	--	19[m]	52	12	17	--	--	179[b]	
				12-30-49[k]	7.4	---	---	0.09	---	---	14	--	14[m]	47	13	17	--	--	171[b]	
				3-30-50[k]	7.2	---	---	0.09	---	---	14	--	23[m]	48	12	17	--	--	169[b]	
				6-30-50[k]	7.3	---	---	0.06	---	---	15	--	23[m]	49	13	16	--	--	176[b]	
				9-28-50[k]	7.4	---	---	0.07	---	---	16	--	22[m]	50	12	17	--	--	174[b]	
				12-27-50[k]	7.5	---	---	0.04	---	---	17	--	43[m]	50	12	18	--	--	174[b]	
				4- 2-51[k]	7.4	---	---	0.02	---	---	18	--	20[m]	49	14	18	--	--	180[b]	
				5- 3-51	7.7	380	---	0.00	---	205	14	10	14	51	12	25	--	23	173[b]	
				10-16-51[k]	7.4	---	---	0.04	---	---	14	--	31[m]	49	14	21	--	--	180[b]	
				3-11-52[k]	7.5	---	---	0.08	---	---	20	--	17[m]	43	34	19	--	--	247[b]	
				3-17-52	7.9	350	---	0.05	---	214	11	7	12	50	13	26	--	24	178[b]	
				9- 5-52[k]	7.7	---	---	0.26	---	---	13	--	18[m]	39	18	19	--	19	171[b]	
				3- 6-53[k]	7.7	---	---	0.00	---	---	13	--	18[m]	38	20	18	--	18	177[b]	
				5-14-53	8.0	410	---	0.05	---	208	14	8	15	50	13	22	--	21	178[b]	
				9- 4-53[k]	8.0	---	---	0.00	---	---	15	--	5[m]	37	20	18	--	18	174[b]	
				3-26-54[k]	7.7	---	---	0.20	---	---	12	--	16[m]	35	20	16	--	18	170[b]	
				7-21-54	8.1	388	248	0.06	0.5	205	14	10	24	53	11	18	1	--	178[b]	
				8-19-54[k]	7.5	---	---	0.20	---	---	14	--	8[m]	41	15	17	--	19	164[b]	
D-1007e 1S/7W-27R1	Ontario Municipal Airport, 500 feet W. of Archibald Ave., 1,300 feet N. of U.P.R.R. Owner: City of Ontario, well No. 8. Use: Domestic and irrigation. Perforated 175-188; 260-287; 348-360; 492-524.	---	536	5-19-50[k]	7.4	---	269	0.07	---	197	8	10	7	44	10	15	2	18	150	
				6-12-51[k]	7.4	---	252	0.04	0.8	197	10	15	6	42	10	15	1	18	148	
				9- 4-53[k]	8.0	---	246	0.20	0.0	166	10	2	3	34	12	16	2	20	136	
D-1007f 1S/7W-34B1	SE. of Ontario; 75 feet S. of Mission Blvd., 0.56 mile W. of Archibald along Mission Blvd. Owner: Joe and V.A. Ortez. Use: Irrigation.	---	316	6- 9-53	8.0	362	229	0.04	0.7	195	9	6	18	45	10	17	1	19	154[b]	
D-1008c 1S/7W-27D1	E. of Ontario; 1,000 feet E. of Vineyard Ave., 80 feet S. of S.P.R.R. Owner: City of Ontario, well No. 7.	958	---	5-19-50[k]	7.0	---	272	0.05	---	195	10	21	4	45	11	17	2	19	155	
				6-12-51[k]	7.3	---	258	0.09	0.4	185	11	22	11	38	13	16	1	19	150	
				9- 4-53[k]	7.9	---	249	0.40	0.4	161	10	6	6	35	14	17	2	25	145	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (micromhos at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-1015c 1S/7W- 3H1	S. of Alta Loma; 1,330 feet S. of Base Line Ave., 680 feet W. of Archibald Ave. Owner: Old Settlers Water Co., well No. 1. Use: Irrigation. Casing: 15 inches.	1,32[illegible]	448	8- 5-31[a]	---	368	---	Tr.	---	201	7	21	9	47	12	16	--	18	167[b]	
				12-13-46	8.0	127	---	0.00	---	67	5	4	0	3	3	23	--	74	20[b]	
				10-23-53	8.1	42[illegible]	290	0.02	0.1	176	7	28	26	51	15	15	2	--	189[b]	CO_3 = 7 ppm.
D-1016 1S/7W-28D1	N. of Guasti; 675 feet S. of San Bernardino Ave., 0.24 mile E. of Archibald Ave. Owner: Signorio Bros. Use: Irrigation and domestic. Casing: 16 inches. Gravel 234-254; 307-353; 37[illegible]-4[illegible]; 4[illegible]-42[illegible].	1,016	507	11-1[illegible]-31[b]	7.7	373	---	0.02	---	207	9	7	9	49	12	19	--	19	172[b]	
				12-13-46	7.9	330	---	0.00	---	198	11	9	9	50	9	18	--	20	162[b]	
				3-30-48	8.4	255	---	0.00	---	159	2	22	6	37	9	16	--	21	129[b]	
				5- 4-51	8.0	400	---	0.00	---	250	7	7	9	57	11	29	--	26	188[b]	
				3-18-52	7.4	270	---	0.07	---	153	5	30	1	24	8	41	--	49	93[b]	
				9-14-53	8.0	400	---	0.03	---	220	14	6	9	50	12	19	--	19	176	
D-1018a 1S/7W-35E1	E. of Ontario; 60 feet E. of Archibald Ave., 145 feet S. of Riverside Dr. Owner: Benton Ballon. Casing: 18 inches. S.B.Co.F.C.D. sample point No. 274.	-----	---	4- 7-48[e]	7.6	349	221	0.00	0.2	202	13	5	6	47	7	12	--	14	156	
D-1020 1S/6W-29C1	E. of Guasti; 300 feet S. of Slover Ave., 600 feet E. of Wineville Ave. Owner: Nando Miglietta. Use: Domestic. Casing: 7 inches. S.B.Co.F.C.D. sample point No. 80.	974	280	11-12-31[a]	---	395	---	0.03	---	207	18	6	6	42	11	30	--	30	150[b]	
				1-[illegible]-44[e]	7.4	433	266	0.00	---	204	36	7	2	47	11	33	2	32	162	
				[illegible]-5-45[e]	7.9	448	230	0.00	---	222	42	1	0	49	12	33	--	29	172	
				11- 5-45[e]	8.0	444	277	0.00	---	224	40	2	25	49	10	26	0	26	165	
				5-28-46[e]	8.3	430	233	0.00	---	238	33	4	7	51	8	30	--	29	162	
				10-31-46[e]	7.6	457	266	0.00	---	198	32	5	34	50	12	30	--	28	175	
				12-13-46	---	390	---	0.00	---	192	30	7	9	46	12	32	--	30	164[b]	
				8-28-47[e]	6.9	425	269	0.00	---	203	38	5	19	42	15	39	--	33	169	
				5-23-48[e]	7.6	458	258	0.17	0.3	176	46	8	5	53	12	18	--	18	183	
				3-30-48	---	370	---	0.00	---	211	32	6	Tr.	45	12	32	--	30	162[b]	
				5-18-49[e]	7.9	448	246	0.13	Tr.	215	36	12	8	48	15	24	--	23	180	
				12- 4-50[e]	7.9	441	275	0.00	0.0	220	33	2	12	47	10	28	--	28	160	
				5- 3-51	7.9	450	---	0.00	---	226	39	7	12	49	12	46	--	37	172[b]	
				4-24-52[e]	7.6	434	258	-----	---	188	29	8	14	55	10	23	2	21	176	
				5-15-53	8.5	430	---	0.02	---	195	28	6	14	46	14	28	--	26	172[b]	
				5-18-53[e]	7.8	423	285	0.00	0.2	190	40	6	16	45	13	24	2	24	166	
D-1028b 1S/6W-20M1	N. of Mira Loma; 200 feet W. of Etiwanda Ave., 0.75 mile N. of Marlay Ave. Owner: S and S Rancho. S.B.Co.F.C.D. sample point No. 79.	-----	---	1-29-44[e]	7.5	407	239	0.00	---	198	20	10	10	55	6	23	2	24	162	
				2-13-45[e]	8.0	410	227	0.00	---	201	25	5	14	56	5	28	--	27	162	
				3-28-45[e]	8.4	412	219	0.00	---	200	18	3	17	56	3	39	2	37	150	
				5- 1-45[e]	8.0	411	188	0.00	---	196	22	5	11	75	4	27	0	23	204	
				11- 5-45[e]	7.8	419	217	0.00	---	221	23	8	24	59	4	35	--	31	166	
				5-28-46[e]	8.8	408	174	0.00	---	146	22	4	20	59	2	23	0	24	158	
				8-27-47[e]	7.0	396	278	0.12	0.2	215	26	5	46	59	12	40	--	20	197	
				8-23-48[e]	6.8	430	264	0.32	---	193	23	10	16	64	7	20	9	23	190	
				5-18-49[e]	8.0	423	256	0.04	Tr.	200	26	11	21	56	6	19	--	20	172	
				12- 4-50[e]	7.8	430	272	0.00	0.0	200	26	3	20	57	5	24	--	24	161	
				9-24-52[e]	7.7	390	257	0.10	0.0	200	24	6	18	57	4	23	2	23	159	
				5-18-53[e]	8.1	396	239	0.00	0.2	200	27	5	19	51	8	22	2	23	161	
				7-21-54	8.0	383	239	0.00	0.2	198	20	7	18	57	5	22	2	--	163[b]	
D-1035 1S/6W-20H1	S. of Etiwanda; 580 feet S. of San Bernardino Ave., [illegible] mile W. of Etiwanda Ave. Owner: Spence Johnson. Use: Not used. Casing: 16 inches. [illegible]; [illegible]; 350-3[illegible]; [illegible]-3[illegible]; 4[illegible]-41[illegible]; 4[illegible]-4[illegible]; 434-440; 752-788; 820-856; 856-880. S.B.Co.F.C.D. sample point No. 130.	1,040	1,312	2- 7-45[e]	8.0	446	235	0.00	---	189	69	3	0	49	10	31	--	29	163	
				5- 5-45[e]	7.6	427	286	0.00	---	186	44	5	8	50	9	32	--	31	161	
				8- 7-45[e]	7.5	488	310	0.00	---	188	55	7	23	62	12	26	--	22	202	
				11- 2-45[e]	8.5	376	258	0.00	---	176	15	30	10	51	11	16	--	17	174	CO_3 = 15 ppm.
				5-18-53[e]	8.0	360	262	0.00	0.2	185	9	27	1	37	16	13	2	15	160	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($K \times 10^4$ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-1037b 1S/6W- 4P1	E. of Etiwanda; 150 feet W. of East St., 300 feet N. of Foothill Blvd. Owner: Etiwanda Water Co., Gum Grove well No. 2. Use: Domestic and irrigation. Casing: 20 inches. Perforated [illegible]. [illegible].Co.F.C.D. sample point No. 996.	1,200	820	12-10-53[e]	7.6	276	170	0.00	Tr.	149	6	11	4	28	9	16	2	24	109	
D-1039b	SW. of Fontana; 6,400 feet W. of Cherry Ave., 825 feet S. of Merrill Ave. Owner: Kaiser Steel Corp., well No. 1. S.B.Co.F.C.D. sample point No. 854.	-----	818	7-31-42[h]	---	---	164	----	---	140	10	10	--	41	7	16	--	--	131[b]	
				Feb., 1947[h]	7.7	---	205	----	---	152	16	8	--	53	6	0	--	--	157[b]	
				10- 2-52[e]	7.8	311	200	0.07	Tr.	173	12	4	5	37	13	16	1	19	145	
D-1039c 1S/6W-16L1	SW. of Fontana; 0.40 mile N. of San Bernardino Ave., 0.35 mile E. of Etiwanda Ave. Owner: [illegible] Industrial. [illegible]; [illegible]; [illegible]; [illegible]; [illegible]; [illegible]. S.B.Co.F.C.D. sample point No. 131.	1,075	800	2- 8-45[e]	7.7	283	184	0.00	---	159	8	12	0	33	8	21	--	28	114	
				5- 1-45[e]	7.4	289	214	0.07	---	154	5	9	1	44	6	15	0	20	136	
				11- 5-45[e]	7.8	295	160	0.00	---	173	11	4	16	38	5	15	—	22	115	
				10- 2-52[e]	8.0	359	214	0.10	0.1	203	5	22	1	59	11	7	2	7	192	
				10-22-53	8.2	296	172	0.00	0.1	149	5	12	2	40	5	13	1	--	121[b]	CO_3 = 7 ppm.
D-1039d 1S/6W-16J1	SW. of Fontana; 6,000 feet W. of Cherry Ave., 4,000 feet S. of A.T.& S.F.R.R. Owner: Kaiser Steel Corp., well No. 2. Use: Industrial. Casing: 20 inches. Perforated 451-455; 491-603; 664-780. S.B.Co.F.C.D. sample point No. 853.	1,075	800	10- 9-42[h]	---	---	166	----	---	144	8	13	--	43	9	12	--	--	144[b]	
				Feb., 1947[h]	7.8	---	164	----	---	133	13	8	--	42	6	5	--	--	130[b]	
				10- 2-52[e]	7.6	346	220	0.00	Tr.	188	14	6	8	46	9	19	1	21	152	
D-1041 1S/6W-28E1	SW. of Fontana; 60 feet E. of Etiwanda Ave., 0.35 mile S. of Slover Ave. Owner: A. Pilippi. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 135.	950	364	2-13-45[e]	7.8	436	296	0.00	---	202	42	8	12	56	7	35	--	30	171	
				5-27-46[e]	9.2	448	283	0.00	---	226	34	7	22	64	3	29	0	27	172	
				5-16-49[e]	8.0	431	261	0.09	Tr.	200	29	14	21	59	10	40	--	32	188	
				5-18-53[e]	7.7	440	279	0.01	0.2	193	33	6	16	55	7	20	2	20	168	
D-1042a 1S/6W-33B1	N. of Mira Loma; 0.1 mile S. of Jurupa Ave., 0.57 mile E. of Etiwanda Ave. Owner: S.S. Swanson. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 136.	913	190	11-12-31[a]	---	398	---	0.06	---	192	27	--	--	--	--	--	--	--	---	
				2-13-45[e]	7.9	429	270	0.00	---	202	31	7	17	58	7	27	--	25	173	
				3-29-45[e]	8.4	442	245	0.00	---	205	24	7	12	54	4	28	2	28	162	
				5- 1-45[e]	7.4	441	230	0.00	---	205	26	5	34	67	5	24	0	22	187	
				8- 7-45[e]	7.5	443	---	0.00	---	210	33	9	28	63	4	24	0	23	176	
				11- 5-45[e]	7.7	458	---	0.00	---	220	28	5	32	64	5	29	--	26	179	
				5-27-46[e]	8.6	445	252	0.00	---	210	28	8	39	66	3	25	9	27	176	
				5-27-47	---	444	---	0.00	---	200	41	12	11	67	7	28	--	24	196[b]	
				8-27-47[e]	6.4	480	278	0.47	0.0	220	46	9	88	73	11	36	--	26	230	
				3-23-48[e]	6.6	496	340	0.30	0.3	206	39	17	20	73	9	34	--	12	216	
				3-30-48	---	412	---	0.00	---	206	34	11	13	66	6	24	--	21	190[b]	
				5-18-49[e]	8.2	455	279	0.04	0.0	205	32	12	23	62	9	14	--	14	191	
				5- 3-51	8.1	410	---	0.00	---	205	25	8	5	59	6	28	--	22	171	
				9-24-52[e]	7.5	444	285	0.00	0.0	214	32	10	22	64	7	21	3	19	189	
				5-15-53	8.1	450	---	0.03	---	214	21	7	19	58	10	27	--	24	184	
				5-18-53[e]	7.7	427	250	0.00	0.1	200	29	7	20	53	8	24	2	23	168	
D-1042b 1S/6W-33A1	NE. of Mira Loma; 1,056 feet W. of Mulberry Ave., 1,320 feet N. of Marlay St. Owner: P.H. Marlay. Use: Irrigation. S.B.Co.F.C.D. sample point No. 78.	908	---	1-29-44[e]	7.5	473	264	0.00	---	210	27	12	12	63	5	31	2	36	175	
				2-13-45[e]	7.9	469	242	0.00	---	213	33	10	34	63	7	31	--	27	188	
				5-27-46[e]	8.9	449	270	0.00	---	227	25	10	10	60	3	31	--	29	163	
				5-18-49[e]	8.2	476	294	0.11	0.0	220	29	16	29	63	9	27	--	23	195	
				9-24-52[e]	7.5	434	299	0.04	0.0	223	27	8	27	49	15	28	3	25	184	
				5-18-53[e]	7.9	463	277	0.00	0.2	212	30	8	22	55	11	26	2	23	183	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Series and [illegible] numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CHINO BASIN - (continued)													
D-1043 1S/6W-34N1	NE. of Mira Loma; 75 feet S. of Marlay St., 300 feet E. of Mulberry Ave. Owner: F.H. Marlay. Use: Irrigation. Casing: 14 inches. Perforated 130-[illegible]; 14[illegible]-1[illegible]; 1[illegible]5-199; 210-226; 227-[illegible]. S.B.Co.F.C.D. sample point No. 579.	884	288	2-13-51[e]	8.0	346	228	0.00	0.2	173	10	12	8	48	2	19	--	24	128	
D-1043c 1S/6W- 4A1	Mira Loma; 75 feet S. of Riverside Rd., 1,300 feet E. of Mulberry Ave. Owner: Hunter. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 840.	848	---	9-24-52[e]	7.7	401	251	0.08	0.0	165	51	9	15	39	10	33	2	34	140	
D-1043e 2S/6W- 3D1	Mira Loma; 81 feet S. of Riverside Rd., 707 feet E. of Mulberry Ave. Owner: A. Filippi. Use: Irrigation and domestic. S.B.Co.F.C.D. sample point No. 581.	844	---	2-13-51[e] 9-24-52[e]	7.9 7.8	386 370	246 245	0.00 0.45	0.4 0.1	154 159	30 34	16 12	14 15	43 39	2 8	33 29	-- 2	37 32	118 131	
D-1043f 1S/6W-34K2	NE. of Mira Loma; 0.2 mile E. of Pauline Ave., 30 feet S. of Marlay St. Owner: Cappo Winery. Use: Irrigation. S.B.Co.F.C.D. sample point No. 841.	890	---	9-24-52[e]	7.7	677	531	1.18	0.0	220	88	22	50	95	11	35	3	21	282	
D-1043h 2S/6W- 3B1	E. of Mira Loma; 60 feet S. of Riverside Rd., 40 feet E. of Pauline (Banana) Ave. Owner: C.T. Burtt. Use: Industrial. Casing: 16 inches. S.B. Co.F.C.D. sample point No. 580.	856	200	2-13-51[e] 9-24-52[e]	8.1 7.7	579 570	402 405	0.00 0.17	0.3 ---	173 198	50 49	15 18	59 66	71 72	9 14	32 24	-- 2	24 18	214 240	CO_3 = 7 ppm.
D-1050 1S/6W-11N1	E. of Etiwanda; 75 feet E. of Cherry Ave., 500 feet N. of Merrill Ave., 110 feet S. of A.T.&S.F.R.R. Owner: Fontana Union Water Co., well No. 17. Use: Irrigation. Casing: 20 inches. Gravel 380-406; 410-438; 450-463; 466-474; 4[illegible]-4[illegible]; 4[illegible]-632; 680-712. S.B. Co.F.C.D. sample point No. 267.	1,165	845	11-13-31[a] 12-16-46 3-24-48[e] 5-18-49[e] 4- 9-51[e] 5- 3-51 5-15-53 5-18-53[e]	--- --- 7.1 8.4 7.8 7.9 8.4 7.6	355 300 435 413 375 330 320 377	--- --- 262 246 230 --- --- 228	0.08 0.10 0.24 0.14 0.03 0.00 0.02 0.00	--- --- 0.1 0.0 0.1 --- --- 0.2	192 183 216 215 198 201 177 207	9 7 30 20 11 7 4 14	5 13 13 9 4 7 15 5	6 0 17 21 12 7 2 10	50 48 62 57 50 48 47 43	8 7 8 10 8 8 8 13	17 15 18 15 11 27 10 18	-- -- -- -- -- -- -- 2	19 18 17 15 13 27 13 19	159[b] 149[b] 199 185 156 153[b] 150[b] 160	
D-1056a 1S/6W-11N1	NW. of Fontana; 750 feet S. of Foothill Blvd., 75 feet W. of Hemlock Ave. Owner: Fontana Union Water Co., well No. 30. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 609.	1,247	918	4- 9-51[e]	7.6	362	226	----	0.0	205	10	4	9	51	8	10	--	11	160	
D-1056c 1S/6W-36A1	NE. of Mira Loma; 120 feet S. of Jurupa Ave., 195 feet E. of Hemlock Ave. Owner: Pagliuso Bros. Use: Domestic. Casing: 10 inches. S.B. Co.F.C.D. sample point No. 578.	963	210	2-13-51[e] 5-18-53[e] 10-22-53	7.6 7.7 7.9	907 634 657	652 406 415	0.00 0.05 0.00	0.3 0.2 0.1	256 190 190	47 45 41	31 12 22	13 99 98	118 71 75	10 12 12	48 38 34	-- 3 3	24 26 24	334 227 236	
D-1056 1S/6W-25C1	SW. of Fontana; 30 feet S. of Slover Ave., 50 feet W. of Poplar Ave. Owner: Fontana Union Water Co., well No. 5. Use: Irrigation. Casing: 16 inches. Gravel 250-276; 418-446; 520-540; 560-586. S.B.Co.F.C.D. sample point No. 393.	1,052	854	11-13-31[a] 7-18-49[e]	--- 7.3	338 325	--- 218	0.01 0.11	--- 0.2	174 176	9 12	12 14	6 9	49 42	7 5	18 15	-- --	21 21	151[b] 126	
D-1059 1S/6W-12[illegible]	W. of Fontana; 100 feet E. of Elm St., 80 feet S. of A.T.&S.F.R.R. Owner: Fontana Union Water Co., well No. 16. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 608.	1,210	854	4- 9-51[e]	7.6	357	224	0.03	0.0	195	11	5	10	45	8	15	--	18	146	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								CHINO BASIN - (continued)												
D-1061 1S/5W- 6D1	W. of Rialto; 40 feet S. of Base Line Ave., 310 feet E. of Citrus Ave. Owner: Fontana Union Water Co., well No. 31. Use: Domestic and irrigation. Casing: 20 inches. Perforated 640-761.	1,396	761	12-15-31[a] 12-16-46	--- 8.0	332 210	--- ---	0.02 0.20	--- ---	201 119	9 2	3 17	3 0	46 32	7 7	19 9	-- --	22 15	144[b] 109[b]	
D-1062 1S/5W- 7R1	Fontana; 100 feet S. of A.T.&S.F.R.R., 40 feet E. of Juniper St. Owner: Fontana Union Water Co., well No. 11. Use: Domestic and irrigation. Casing: 20 inches. Perforated 700-852. S.B. Co.F.C.D. sample point No. 607.	1,247	872	11-13-31[a] 5-26-47 4- 9-51[e] 5- 3-51 5-15-53	--- --- 7.8 7.9 8.3	314 256 326 290 340	--- --- 219 --- ---	0.06 0.10 0.05 0.01 0.01	--- --- 0.0 --- ---	180 159 163 171 183	5 2 8 7 5	-- 16 0 7 11	-- 2 8 43 4	-- 43 41 35 44	-- 8 12 6 9	-- 10 14 36 17	-- -- -- -- --	-- 13 16 41 20	--- 140[b] 150 112[b] 147[b]	CO_3 = 7 ppm.
D-1062a 1S/5W- 7N1	W. of Fontana; 50 feet S. of A.T.&S.F. R.R., 50 feet W. of Oleander Ave. Owner: Fontana Union Water Co., well No. 21. Casing: 20 inches. Perforated 424-660; 680-782. S.B.Co.F.C. D. sample point No. 844.	1,235	812	10- 2-52[e]	7.7	377	230	1.01	0.1	195	13	6	16	49	11	20	2	20	168	
D-1064a 1S/5W-19A1	S. of Fontana; 30 feet S. of San Bernardino Ave., 0.13 mile W. of Magnolia Ave. Owner: Fontana Union Water Co., well No. 15. Use: Irrigation. Casing: 20 inches. Gravel 318-332; 388-4[illegible]; 444-464; 4[illegible]-496; 500-546; [illegible]-590; 596-630; 638-646; 650-680. S.B. Co.F.C.D. sample point No. 3[illegible].	1,156	808	11-13-31[a] 7-18-49[e]	--- 7.3	334 328	--- 222	0.03 0.07	--- 0.2	180 176	7 12	-- 13	-- 10	-- 42	-- 7	-- 17	-- --	-- 22	--- 134	
D-1069 1S/5W-2[illegible]D1	S. of Fontana; 185 feet E. of Sierra Ave., 60 feet S. of San Bernardino Ave. Owner: Marigold Mutual Water Co. Use: Domestic and irrigation. S.B.Co. F.C.D. sample point No. 265.	1,157	510	3-23-48[e] 10- 2-52[e] 10-22-53	7.6 7.5 8.0	361 361 373	220 224 227	0.14 0.04 0.00	0.1 Tr. 0.1	184 185 185	15 18 14	14 7 9	14 14 19	59 54 56	8 8 3	7 17 18	0 2 2	22 18 --	181 167 152[b]	
D-1075 1S/5W-16J1	N. of Bloomington; 75 feet S. of Randall Ave., 400 feet W. of Linden Ave. Owner: Fontana Union Water Co., well No. 1[illegible]. Use: Irrigation. Casing: 16 inches. Gravel 319-376; 465-4[illegible]; [illegible]-[illegible]; 6[illegible]-[illegible]7; 7[illegible]-7[illegible]. S.B. Co.F.C.D. sample point No. 387.	1,178	734	11-13-31[a] 7-18-49[e]	--- 7.2	417 393	--- 281	0.02 0.11	--- 0.2	207 193	20 15	-- 17	-- 24	-- 58	-- 8	-- 13	-- --	-- 14	--- 177	
D-1076 1S/5W-21B1	Bloomington; 42 feet S. of San Bernardino Ave., 1,742 feet W. of Linden Ave. Owner: Marigold Mutual Water Co., well No. 4. Use: Irrigation. S.B.Co.F.C.D. sample point No. 852.	1,148	510	10- 2-52[e] 10-22-53	7.6 8.1	392 392	250 235	0.05 0.00	0.1 0.1	193 183	17 10	11 16	20 20	58 56	8 7	15 15	2 2	15 --	183 169[b]	
D-1076a 1S/5W-21D1	W. of Bloomington; 60 feet E. of Adler Ave., 50 feet S. of San Bernardino Ave. Owner: Marigold Mutual Water Co., well No. 3. S.B.Co.F.C.D. sample point No. 851.	1,149	---	10- 2-52[e]	7.7	382	234	0.07	0.1	193	20	10	19	58	8	18	2	18	180	
D-1082 1S/5W-15G1	NE. of Bloomington; 700 feet N. of Randall Ave., 45 feet E. of Larch Ave. Owner: Southern California Water Co., Plant No. 1. Use: Municipal. Casing: 16 inches. Perforated 228-230; 2[illegible]-2[illegible]; [illegible]-307; 3[illegible]-3[illegible]; 48[illegible]-5[illegible]0; 575-602. S.B.Co.F.C.D. sample point No. 320.	1,180	620	12-17-31[a] 6- 6-40 10-31-46 4-16-48 6- 9-48[e] 12- 4-50[e] 10- 2-52[e] 5-15-53	7.9 --- 7.6 --- 7.1 7.8 7.7 7.9	387 410 351 397 408 427 431 400	176 --- --- --- 285 294 278 ---	0.02 0.00 0.00 0.00 0.53 0.02 0.10 0.03	--- --- --- --- 0.3 0.2 0.1 ---	189 200 189 201 212 200 201 201	18 27 9 10 15 14 17 5	9 18 16 17 2 16 17 26	8 19 18 31 25 33 34 7	56 62 59 60 63 60 63 56	9 7 7 7 7 6 10 12	17 29 17 20 6 19 20 14	-- -- -- -- -- -- 2 --	17 25 17 19 6 19 18 14	177[b] 184[b] 176[b] 179[b] 188 177 200 189	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Name and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well in feet	Date sampled	pH	Conductivity (EC x 10^6 at 25° C)	Total dissolved solids in ppm	Boron (B)	Fluoride (F)	Bicarbonate (HCO3)	Chloride (Cl)	Sulphate (SO4)	Nitrate (NO3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO3, in ppm	Remarks
							CHINO BASIN - (continued)													
[illegible]-1166 1N/7W-23J1	NE. of Alta Loma; 0.23 mile E. of Turner (Hermosa) Ave., 20 feet N. of Hillside Dr. Owner: Schowalter Mutual Water Co. Use: Domestic and irrigation. Casing: 20 inches. Perforated 265-283; 283-308; 375-382; 440-446; 446-452; 462-466; 515-533; 605-620; 623-642.	1,890	750	12-17-31[a]	---	300	---	Tr.	---	180	6	11	1	43	10	13	--	15	149[b]	
				1-2[illegible]-37	7.9	323	---	0.10	---	180	6	15	1	46	7	13	--	16	144[b]	
				6-31-38	---	300	---	0.00	---	185	8	12	1	40	8	11	--	15	133[b]	
				11- 1-46	7.6	257	---	0.00	---	165	2	10	2	42	8	12	--	16	138[b]	
				10-23-53	8.3	312	193	0.00	0.1	144	3	12	3	39	7	9	2	--	126[b]	CO_3 = 10 ppm.
D-1153 1N/6W-26K1	NW. of Fontana; 450 feet E. of San Sevaine Rd., 0.45 mile N. of Highland Ave. Owner: John Elletich. Use: Domestic. Dug well.	1,482	300	12-17-31[a]	---	301	---	0.04	---	192	6	2	1	47	9	11	--	14	154[b]	
				9-22-32[a]	---	342	---	0.04	---	192	7	7	7	48	9	12	--	14	157[b]	
				12-16-46	8.0	463	---	0.00	---	226	11	76	0	76	15	17	--	13	252[b]	
D-1156 1N/6W-25K1	[illegible] of Fontana; 40 feet N. of Carter St., 50 feet W. of Hamilton Ave. Owner: Landon Water Co. Use: Municipal. Casing: 16 inches. Perforated 695-778; 792-819; 855-893.	1,537	915	12-15-31[a]	8.0	348	---	0.05	---	207	7	4	4	47	10	17	--	19	158	
				12-16-46	7.8	314	---	0.10	---	198	7	6	4	48	8	18	--	20	153[b]	
				9-30-53	8.2	347	205	0.00	0.2	205	6	6	7	47	8	18	1	20	150	
D-1186 1N/6W-17C1	N. of Etiwanda; in Day Canyon, 550 feet S. and 1,900 feet E. of NW. corner Sec. 17, T. 1 N., R. 6 W., S.B.B.&M. Owner: Etiwanda Water Co., Day Canyon well. Use: Not used. Casing: 20 inches. Perforated 254-[illegible].	------	282	12-31-48[b]	---	257	---	0.29	---	61	11	45	--	21	2	42	--	60	61[b]	CO_3 = 24 ppm.
				1-26-49[b]	8.2	1[illegible]1	---	0.27	2.7	56	2	9	Tr.	9	3	30	--	64	35[b]	CO_3 = 21 ppm.
							CLAREMONT HEIGHTS BASIN													
C-656[illegible] 1N/8W-34L1	N. of Claremont; 50 feet W. of Hills Ave., 0.25 mile N. of Base Line Ave. Owner: J.F. Woods Ranch. Use: Irrigation. Casing: 20 inches.	1,506	483	6-23-51[i]	8.7	---	342	----	---	176	6	79	--	104	11	Tr.	--	--	305[b]	
C-656[illegible] 1N/8W-34N1	N. of Claremont; 0.16 mile N. of Base Line Ave., 40 feet W. of Bonnie Brae Ave. Owner: H.G. McKenna. Use: Irrigation. Casing: 20 inches. Gravel 709-730.	1,466	767	10-10-31[a]	---	326	---	0.08	---	174	2	24	2	43	8	18	--	22	140[b]	
				9-2[illegible]-37	---	331	---	0.08	---	154	8	32	25	51	10	13	--	14	167[b]	
				4- 1-53	8.2	370	---	0.09	---	171	9	14	20	44	11	26	--	27	155[b]	
C-656t 1N/8W-34F1	N. of Claremont; 650 feet N. of Base Line Ave., 600 feet E. of Bonnie Brae Ave. Owner: C.B. Pitzer. Use: Irrigation and stock. Casing: 10 inches.	1,472	---	3-27-53[d]	8.0	458	302	0.01	0.2	152	10	47	55	62	13	12	2	11	208	
[illegible]-656[illegible]1 1S/8W-3A1	NW. of Upland; 30 feet S. of Base Line Ave., 200 feet W. of Monte Vista Ave. Owner: Lee Pitzer. Use: Irrigation.	1,412	408	7-16-51[i]	6.8	---	334	Tr.	---	168	6	45	2	84	22	Tr.	--	--	321[b]	
				9-30-53	8.0	321	198	0.14	0.5	168	2	19	8	36	9	18	1	--	127[b]	
D-701a 1N/8W-24L1	NW. of Upland; 0.24 mile W. of Mountain Ave., 30 feet S. of 26th St. Owner: City of Upland, well No. 1. Use: Municipal. Casing: Shaft. Gravel 0-192.	2,160	192	12- 1-31[a]	---	372	---	0.17	---	207	4	24	2	54	13	10	--	10	188[b]	
				12-13-46	---	300	---	0.10	---	176	2	24	0	47	10	18	--	20	159[b]	
				5- 4-51	8.3	430	---	0.10	---	256	7	42	2	66	15	20	--	16	227[b]	
				2-29-52	7.8	400	---	0.07	---	232	4	41	4	60	13	17	--	16	203[b]	
				4- 1-53	8.0	410	---	0.04	---	244	--	34	2	58	18	12	--	11	219[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CLAREMONT HEIGHTS BASIN - (continued)														
D-705g 1N/8W-25K1	NW. of Upland; 0.13 mile N. of 21st St., 0.13 mile E. of Mountain Ave. Owner: City of Upland, well No. 5. Use: Municipal. Casing: 24 inches. Perforated 230-460. S.B.Co.F.C.D. sample point No. 332.	1,840	491	12- 1-31[a] 10-15-48[e]	--- 7.3	345 424	--- ---	0.17 ----	--- 0.1	183 200	4 --	18 --	6 36	46 --	11 --	11 --	-- --	13 --	160[b] ---	
D-705m 1N/8W-25M1	NW. of Upland; 600 feet N. of 21st St., 2,075 feet W. of Mountain Ave. Owner: Upland Foothill Water Company, well No. 1. Use: Irrigation. S.B. Co.F.C.D. sample point No. 999.	1,865	---	12-10-53[e]	7.8	432	266	0.01	0.4	186	6	36	37	56	16	10	2	10	204	
D-711a 1N/8W-35J1	Claremont; 0.2 mile W. of Benson Ave., 0.32 mile N. of Base Line Ave. Owner: San Antonio Water Company, well No. 4. Use: Domestic and Irrigation. Casing: 24 inches. Perforated 274-348; 430-480; 480-510; 510-545.	1,600	558	9-29-39 9-30-53	7.9 7.9	352 357	--- 220	0.06 0.00	--- 0.4	192 185	7 4	20 25	4 20	50 53	11 12	7 8	-- 2	8 9	170[b] 182[b]	
D-711c 1N/8W-35K1	NW. of Upland; 0.38 mile W. of Benson Ave., 0.38 mile N. of Base Line Ave. Owner: San Antonio Water Company, well No. 6. Use: Irrigation. Casing: 20 inches. Perforated 275-325; 475-520; 550-620; 675-700.	1,650	762	10-16-31[a] 5-26-47 5- 4-51 3- 3-52 4- 1-53	--- --- 8.1 7.9 8.2	333 314 300 290 350	--- --- --- --- ---	0.03 0.00 0.01 0.05 0.11	--- --- --- --- ---	186 192 183 183 195	5 4 3 -- 2	-- 22 21 19 14	-- 6 2 2 4	-- 51 48 48 52	-- 12 7 8 13	-- 10 18 15 7	-- -- -- -- --	-- 11 21 18 7	--- 177[b] 149[b] 153[b] 183[b]	
D-712a 1S/8W- 2B1	NW. of Upland; 75 feet S. of Base Line Ave., 0.4 mile W. of Benson Ave. Owner: West End Consolidated Water Company, well No. 3. Casing: 20 inches. Perforated 265-311; 315-338; 583-596; 690-700; 716-719. S.B.Co.F. C.D. sample point No. 1,000.	1,550	794	12-10-53[e]	7.9	340	202	0.01	0.4	186	3	24	3	45	13	6	2	7	168	
							COLTON BASIN													
D-1095a 1S/5W-12N1	SE. of Rialto; 640 feet N. of Merrill Ave., 50 feet W. of Acacia Ave. Owner: Citizens Land and Water Company, Acacia well. Casing: 20 inches. Perforated 183-187; 195-200; 211-220; 258-270; 280-400; 447-450; 520-524; 539-544; 600-613; 628-630. S.B.Co.F. C.D. sample point No. 680.	1,173	688	12-12-51[e]	7.7	380	236	0.00	0.1	189	10	17	17	56	7	15	--	16	170	
E-70d 1S/4W-17M1	NW. of Colton; 67 feet S. of Citrus Ave., 880 feet E. of Rancho Ave. Owner: J.A. Patterson, well No. 2. Use: Domestic. Casing: 16 inches.	1,068	326	2-19-42[g]	8.0	---	122	0.00	0.6	106	4	7	1	30	3	15	--	--	87[b]	CO_3 = 7 ppm.
E-70g 1S/4W-18G1	NW. of Colton; 600 feet N. of Citrus Ave., 0.3 mile W. of Rancho Ave. Owner: City of Colton. Casing: 16 inches. Perforated 244-344; 380-436; 506-514; 522-534. S.B.Co.F.C.D. sample point No. 259.	1,094	556	3- 4-48[e]	7.3	344	228	0.23	0.5	177	8	22	14	51	10	10	--	11	168	
E-87 1S/4W-29H2	SE. of Colton; 1,009 feet S. of M St., 333 feet W. of Mt. Vernon Ave. Owner: Riverside Water Co., Flume No. 1 well. Use: Irrigation. Casing: 20 inches. Perforated 45-70; 83-97; 131-169.	934	184	12-21-53[c]	---	722	---	----	---	223	80	66	7	103	6	40	--	24	282[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and local well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25° C.)	Total dissolved solids in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							COLTON BASIN - (continued)													
[illegible] 1S/4W-[illegible]	SE. of Colton; 1,709 feet S. of M St., 726 feet W. of Mt. Vernon Ave. Owner: Riverside Water Co., Flume No. 2 well. Use: Irrigation. Casing: 20 inches. Perforated 68-88; 108-220.	923	530	11-27-53[c]	---	727	---	----	---	223	60	89	8	101	5	45	--	26	273[b]	
E-90e 1S/4W-21Q3	NE. of Colton; 0.57 mile W. of E St., 600 feet S. of F St. Owner: Riverside Water Co., Johnson No. 1 well. Use: Irrigation. Casing: 24 inches. Perforated 154-200; 300-628.	955	628	11-27-53[c]	---	591	---	----	---	232	25	62	Tr.	66	6	46	--	14	190[b]	
[illegible]h 1S/4W-21N1	NE. of Colton; 763 feet S. of F St., 1,322 feet E. of Mt. Vernon Ave. Owner: Meeks and Daley Water Co., Meeks well. Use: Irrigation. Casing: 24 inches.	963	689	11-27-53[c]	---	539	---	----	---	256	28	45	Tr.	67	6	48	--	35	192[b]	
E-[illegible]n 1S/4W-21L1	NE. of Colton; 135 feet N. of F St., 2,484 feet E. of Mt. Vernon Ave. Owner: Riverside Water Co., Vaughn No. 1 well. Use: Irrigation. Casing: 24 inches. Perforated 101-125; 126-145; 167-194; 227-242; 264-270; 372-4[illegible].	956	489	11-27-53[c]	---	591	---	----	---	219	25	92	Tr.	76	7	42	--	20	219[b]	
E-90r [illegible]4W-21A1	E. of Colton; 150 feet S. of I St. (U.S. Highway No. 99), 0.3 mile W. of E St., on E. side of Santa Ana River. Owner: Herrick. Use: Domestic. Casing: 10 inches. S.B.Co.F.C.D. sample point No. 576.	961	150	1-30-51[e]	7.0	608	384	0.40	0.5	278	30	66	3	57	11	52	--	38	188	
[illegible]-[illegible]la 1S/4W-[illegible]	SE. of Colton; 2,300 feet N. of Washington St., 2,700 feet E. of Mt. Vernon Ave. Owner: Riverside Highlands Water Co., Delta well No. 4. Use: Irrigation. Casing: 20 inches. Perforated 1-94; 104-134; 150-190; 228-246; [illegible]; [illegible].	942	494	7- 2-28[a]	---	---	---	----	---	345	47	88	--	68	15	96	--	47	232[b]	
				10-10-37	---	901	---	0.26	---	356	44	125	10	81	23	92	--	40	297[b]	
				8-29-39	---	800	---	----	---	295	34	107	9	70	18	77	--	40	249[b]	
				5- 8-53	7.5	690	---	0.13	---	275	36	74	16	74	18	50	--	30	259[b]	
[illegible]-[illegible]1 1S/4W-27L1	NW. of Loma Linda; 400 feet W. of Hunts Lane, 1,460 feet S. of S.P.R.R., S. of U.S. Highway No. 70/99. Owner: Hollow Hill Dairy. Use: Irrigation. Casing: 14 inches. Perforated 165-280. S.B.Co.F.C.D. sample point No. 574.	993	420	1-30-51[e]	7.5	715	450	0.00	0.6	320	39	61	4	54	10	78	--	49	176	
							CUCAMONGA BASIN													
D-707 1N/7W-29E1	N. of Upland; 50 feet S. of 23rd St., [illegible] mile E. of Euclid Ave. Owner: San Antonio Water Co., well No. 15, Reed well. Use: Irrigation. Casing: 12 inches. Gravel 260-278; 420-456; 508-523; 557-564; 608-620; 752-771; 773-804; 815-[illegible]; [illegible]-878; 884-[illegible]; 893-895; 897-902; 906-911; 920-936; [illegible]-964.	1,836	1,000	8-26-29[a]	---	---	---	----	---	177	4	22	Tr.	47	9	8	--	10	154[b]	
				10-10-31[a]	---	307	---	0.01	---	171	4	14	4	43	11	10	--	13	153[b]	
				9-29-37	---	290	---	0.06	---	142	5	19	4	39	5	14	--	21	118[b]	
				11- 1-46	---	268	---	0.00	---	168	1	14	2	43	9	13	--	16	144[b]	
				3-21-47	---	298	---	0.00	---	181	4	19	3	43	8	24	--	27	140[b]	CO_3 = 13 ppm.
				5- 4-51	7.9	300	---	0.03	---	183	3	18	2	45	8	18	--	--	145[b]	
				2-29-52	7.8	240	---	0.02	---	153	--	13	2	36	6	12	--	10	115[b]	
				4- 1-53	7.6	320	---	0.07	---	195	9	7	1	46	8	18	--	21	148[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10[a] at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						CUCAMONGA BASIN - (continued)														
D-708 1N/7W-32R1	NE. of Upland; 820 feet N. of 16th St., 815 feet E. of Cucamonga Ave. Owner: San Antonio Water Co., well No. 2. Use: Irrigation. Casing: 12 inches. Perforated 100-941. S.B.Co.F.C.D. sample point No. 994.	1,490	1,002	12- 9-53[e]	7.6	352	214	0.03	0.4	154	7	20	14	45	11	11	2	13	158	
D-1001b 1S/7W- 4B1	NE. of Upland; 0.11 mile S. of Base Line Rd., 195 feet W. of Cornelian St. Owner: Cucamonga Water Co., well No. 6. Use: Irrigation. Casing: 12 inches.	1,420	365	12-16-31[a]	---	279	---	0.01	---	143	6	16	4	34	10	16	---	22	126[b]	
				3-21-47	---	278	---	0.00	---	156	5	23	9	31	9	26	--	23	114[b]	
				5- 4-51	8.0	290	---	0.01	---	153	5	21	8	35	7	30	--	--	117[b]	
				3-17-52	7.9	320	---	0.04	---	165	7	38	10	33	6	47	--	--	107[b]	
D-1001c 1S/7W- 4B2	NE. of Upland; 100 feet S. of Base Line Rd. 0.18 mile W. of Cornelian St., 10 feet E. of Cucamonga Wash. S.B.Co.F.C.D. sample point No. 992.	1,451	-----	12- 9-53[e]	7.8	300	183	0.00	0.4	159	[illegible]	16	4	30	11	16	2	22	121	
D-1001e 1S/7W- 4A1	NE. of Upland; 300 feet S. of Base Line Rd., 0.15 mile E. of Cornelian St. S.B.Co.F.C.D. sample point No. 997.	1,425	-----	12-10-53[e]	7.9	363	231	0.00	0.3	154	8	41	11	22	[illegible]	44	2	51	89	
D-1001j 1S/7W- 4E1	NE. of Upland; 0.4 mile S. of Base Line Rd., 0.25 mile W. of Alta Cuesta Ave. S.B.Co.F.C.D. sample point No. 998.	1,405	-----	12-10-53[e]	8.1	304	184	0.03	0.3	149	5	22	9	26	7	29	2	40	92	
D-1105d 1N/7W-28Q1	NE. of Upland; 40 feet E. of Cornelian St., 0.1 mile N. of Orange St. Owner: Rex Mutual Water Co. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 995.	1,666	-----	12- 9-53[e]	7.5	255	177	0.00	0.4	127	7	12	10	26	8	16	1	26	98	
D-1106d 1N/7W-33A1	NE. of Upland; 1,360 feet E. of Cornelian St., 103 feet S. of 19th St. Owner: Upland Water Co. Use: Irrigation. Perforated 273-282; 297-306; 321-324; 326-345; 347-393; 396-418; 439-449; 474-489; 664-686.	1,542	702	10-16-31[a]	---	389	---	Tr.	---	174	9	42	7	42	15	21	--	22	167[b]	
				9-29-37	---	423	---	0.06	---	176	9	49	12	47	10	25	--	26	159[b]	
				11- 1-46	---	233	---	0.00	---	107	5	13	27	27	9	17	--	26	104[b]	
				3-21-47	---	236	---	0.00	---	98	4	12	44	25	9	23	--	34	99[b]	
				5- 4-51	7.9	280	---	0.08	---	146	7	15	12	31	9	26	--	28	114[b]	
				4- 1-53	8.2	300	---	0.03	---	153	5	27	12	34	11	20	--	24	130[b]	
D-1106g 1N/7W-33N1	NE. of Upland; 0.15 mile N. of Base Line Ave., 0.22 mile W. of Alta Cuesta St. Owner: San Antonio Water Co., well No. 4. Use: Irrigation. S.B.Co. F.C.D. sample point No. 993.	1,480	434	12- 9-53[e]	7.9	304	184	0.00	0.4	171	4	15	2	41	8	10	2	14	138	
D-1106h 1N/7W-32R2	NE. of Upland; 440 feet S. of 17th St., 1,250 feet E. of Cucamonga Ave. Owner: San Antonio Water Co., well No. 3. Use: Irrigation. Casing: 12 inches. Perforated 100-912.	1,490	928	Nov., 1918[a]	---	---	---	----	---	158	8	17	4	38	12	13	--	16	144[b]	
				8-26-29[a]	---	---	---	----	---	168	5	16	1	46	9	13	--	16	140[b]	
				12-13-46	---	240	---	0.00	---	148	2	17	Tr.	39	8	11	--	16	130[b]	
				5- 4-51	7.6	320	---	0.02	---	171	3	22	12	45	9	19	--	22	149[b]	
				4- 1-53	8.1	240	---	0.04	---	146	2	14	0	37	7	7	--	11	121[b]	
D-1107a 1N/7W-34E1	NE. of Upland; 0.10 mile S. of 19th St., 30 feet E. of Beryl Ave. Owner: Hedge's Inc. Water Co. Use: Irrigation. S.B.Co.F.C.D. sample point No. 997.	1,512	---	7-27-49[e]	7.3	381	271	0.00	0.2	173	10	35	20	38	15	21	--	23	154	
D-1107m 1N/7W-34A1	N. of Alta Loma; 100 feet S. of Highland Ave., 450 feet W. of Archibald Ave. Owner: Foothill Irrigation Co., well No. 1. Use: Irrigation. Casing: 16 inches. Perforated 224-750.	1,535	762	Oct., 1918[a]	---	---	---	----	---	174	12	25	0	43	17	8	--	9	177[b]	
				3-21-47	---	294	---	0.00	---	172	4	12	18	40	8	22	--	26	133[b]	
				9-30-53	8.1	309	180	0.00	0.2	161	4	11	18	38	7	18	2	24	124[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and [illegible]	Location and description	Elevation of ground [illegible] USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							CUCAMONGA BASIN - (continued)													
[illegible]	N. of Alta Loma; 120 feet S. of 19th St., 50 feet E. of Amethyst Ave. Owner: Citrus Water Co., well No. 1. [illegible]: Domestic and irrigation. Casing: 32 inches.	1,492	500	12-16-31[a]	---	374	---	0.08	---	171	6	36	2	44	9	30	--	30	147[b]	
				[illegible]-1-47	---	374	---	0.00	---	195	6	39	18	51	12	17	--	17	177[b]	
				11- 4-53[d]	8.2	424	306	0.00	0.1	181	12	46	16	48	12	23	2	--	169[b]	CO_3 = Trace.
[illegible]	N. of Alta Loma; 600 feet N. of Highland Ave., 20 feet E. of Amethyst Ave. Owner: [illegible] Irrigation Co., well No. 5. Use: Irrigation. Casing: 20 inches. Perforated [illegible]-646, 666-740, [illegible]; [illegible]. S.B.Co.F.C.D. sample point No. 398.	1,572	1,410	11- [illegible]-31[a]	---	399	---	0.06	---	183	5	42	4	42	12	31	--	30	154[b]	
				7-27-4[illegible]	7.2	393	279	0.00	0.2	190	10	35	14	41	14	22	--	23	160	
[illegible] 1N/7W-23K1	NE. of Alta Loma; 0.1 mile E. of Hermosa (Turner) Ave., 0.24 mile N. of [illegible]. Owner: [illegible] Water Co., well No. 1. Use: Domestic and irrigation. Casing: 16 inches. [illegible]; [illegible]; [illegible]; 430-505; 564-588.	1,[illegible]45	618	12-17-31[a]	---	301	---	0.02	---	174	7	13	1	42	10	13	--	15	146[b]	
				5-26-47	---	235	---	0.00	---	153	3	10	Tr.	32	8	20	--	28	113[b]	
				4- 1-53	8.2	270	---	0.04	---	171	2	16	2	40	8	12	--	16	133[b]	
							DEVIL CANYON BASIN													
6-1 1N/4W- [illegible]	NW. of San Bernardino; 4,250 feet NE. of Belmont Ave. along Pine Ave. produced, 950 feet SE. of Pine Ave. Owner: City of San Bernardino, Devil Canyon well No. 4. Use: Municipal. [illegible]: [illegible]-foot caisson.	1,891	50	9- 1-3[illegible][a]	---	593	---	0.02	---	308	9	57	1	84	22	15	--	10	300[b]	
				10-1[illegible]-37	---	392	---	0.04	---	208	9	2[illegible]	Tr.	52	13	14	--	20	183[b]	
				[illegible]-15-39	---	380	---	----	---	198	7	27	0	50	11	10	--	12	170[b]	
				[illegible]-20-51	8.0	366	224	0.12	---	181	23	10	2	49	11	11	--	--	168	Composite of 2 wells.
[illegible] 1N/4W- 8M1	NW. of San Bernardino; 1,300 feet N. and 25[illegible] feet E. of [illegible] corner Sec. 8, T. 1 N., R. 4 W., S.B.B.&M.; 1,400 feet S'ly along Pine Ave. from Belmont St., then 5,500 feet E'ly at right angles. Owner: City of San Bernardino, Devil Canyon well No. 1. Casing: 20 inches.	1,[illegible]30	293	[illegible]-12-46[c]	---	518	---	[illegible].1[illegible]	---	1[illegible]3	7	17	--	53	3	21	--	24	145[b]	Not pumped recently.
[illegible]	[illegible] of San Bernardino; 2[illegible]5 feet E. of [illegible]tern Ave., 47[illegible] feet N. of 42nd St. Owner: City of San Bernardino, Newmark well No. 1. Use: Municipal. Casing: 24 inches.	1,41[illegible]	410	12-17-31[a]	---	348	---	Tr.	---	204	6	12	2	51	11	11	--	12	175[b]	
				9- 1-32[a]	---	356	---	0.08	---	204	9	12	2	51	10	10	--	11	169[b]	
				[illegible]-15-3[illegible]	---	380	---	----	---	201	7	13	3	53	10	10	--	11	174[b]	
				8- [illegible]-4[illegible][c]	---	395	---	0.12	---	228	7	37	--	66	5	[illegible]3	--	26	186[b]	
				11- 4-53	7.9	362	240	0.08	0.3	229	5	13	1	59	11	16	2	--	193[b]	
E-34 1N/4W-14[illegible]	NE. of San Bernardino; 0.26 mile N. of 40th St., 200 feet E. of David Way. [illegible]. Use: [illegible]. Casing: [illegible]. S.B.Co.F.C.D. sample point No. 446.	1,405	80	[illegible]	---	877	---	1.06	0.7	---	--	---	--	--	--	---	--	--	---	
				[illegible]-[illegible]-51[c]	7.0	940	634	1.44	1.0	133	51	[illegible]	1	45	11	13[illegible]	--	66	155	
				4-[illegible]	---	---	---	[illegible]	[illegible]	---	--	---	--	--	--	---	--	--	---	
E-34g 1N/4W-14J2	NE. of San Bernardino; 0.27 mile N. of 40th St., 175 feet E. of David Way. Owner: [illegible] Cuttle and Willis. Use: Domestic. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 445.	1,428	51	1-30-50[c]	---	895	---	1.43	0.7	---	--	---	--	--	--	---	--	--	---	
				[illegible]-14-51[c]	7.0	1,030	697	1.14	1.0	142	55	[illegible]	5	39	17	14[illegible]	--	66	166	
				4-[illegible]-54[c]	---	---	---	1.32	6.0	---	--	---	--	--	--	---	--	--	---	
[illegible] 1N/4W-14M1	N. of San Bernardino; 600 feet S. of N. line of Sec. 14, T. 1 N., R. 4 W., S.B.B.&M., and 250 feet E. of State Highway No. 18. Owner: Merton and [illegible]. Use: Domestic. Casing: 4-foot dug pit with 2-inch column. S.B.Co.F.C.D. sample point No. 370.	1,625	-----	3-15-49[c]	7.8	608	384	1.11	0.6	203	22	106	3	38	12	81	--	55	144	
				4-21-53[c]	8.1	556	378	0.66	2.0	151	24	120	0	32	9	72	5	56	118	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						DEVIL CANYON BASIN - (continued)														
E-34k 1N/4W-14J1	NE. of San Bernardino; 0.32 mile N. of 40th St., 30 feet W. of David Way. Owner: Cottington. Use: Domestic. Casing: 12-inch concrete pipe. S.B. Co.F.C.D. sample point No. 447.	1,420	---	1-30-50[e] 12-14-51[e] 4-26-54[e]	--- 7.1 ---	754 830 ---	--- 534 ---	0.96 0.88 1.10	0.7 1.0 6.0	--- 156 ---	-- 40 --	--- 197 ---	-- 2 --	-- 29 --	-- 13 --	--- 119 ---	-- -- --	-- 67 --	--- 127 ---	
E-34L 1N/4W-14J3	NE. of San Bernardino; 0.30 mile N. of 40th St., 300 feet W. of David Way. Owner: J.L. Killian. Use: Domestic. Casing: 24-inch concrete pipe. S.B. Co.F.C.D. sample point No. 448.	1,400	18	1-30-50[e] 12-14-51[e] 4-26-54[e]	--- 7.5 ---	847 820 ---	--- 542 ---	0.83 0.64 0.88	0.7 0.9 2.5	--- 170 ---	-- 43 --	--- 181 ---	-- 1 --	-- 40 --	-- 9 --	--- 113 ---	-- -- --	-- -- --	--- 138 ---	
E-34m 1N/4W-14R4	NE. of San Bernardino; 0.25 mile N. of 40th St., 250 feet W. of David Way. Owner: H.H. Heater. Use: Domestic. S.B.Co.F.C.D. sample point No. 449.	1,392	---	1-30-50[e] 12-14-51[e] 4-26-54[e]	--- 7.1 ---	750 960 ---	--- 621 ---	0.58 0.88 1.00	0.6 1.0 2.5	--- 159 ---	-- 52 --	--- 246 ---	-- 2 --	-- 51 --	-- 13 --	--- 121 ---	-- -- --	-- 60 --	--- 179 ---	
E-34n 1N/4W-14R7	NE. of San Bernardino; 0.22 mile N. of 40th St., 150 feet W. of David Way. Owner: A.M. Smith. Use: Domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 450.	1,380	15	1-30-50[e] 12-14-51[e] 4-26-54[e]	--- 7.0 ---	709 890 ---	--- 582 ---	1.00 0.84 0.98	0.6 0.9 3.0	--- 168 ---	-- 52 --	--- 219 ---	-- 2 --	-- 43 --	-- 11 --	--- 126 ---	-- -- --	-- 64 --	--- 153 ---	
E-34o 1N/4W-14R3	NE. of San Bernardino; 0.20 mile N. of 40th St., 150 feet W. of David Way. Owner: H.E. Brink. Use: Domestic. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 451.	1,388	12	1-30-50[e] 12-14-51[e] 4-26-54[e]	--- 7.0 ---	709 920 ---	--- 600 ---	0.58 0.88 2.00	0.6 0.9 3.0	--- 163 ---	-- 54 --	--- 228 ---	-- 1 --	-- 46 --	-- 12 --	--- 125 ---	-- -- --	-- 63 --	--- 161 ---	
E-43o 1N/4W-24A1	NE. of San Bernardino; 2,040 feet N. of Foothill Dr., 2,000 feet E. of Del Rosa Ave., 40 feet N. of E-44d. Owner: Bishop. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 785.	1,626	175	5-26-52[e]	7.5	247	180	0.00	0.8	146	16	5	3	28	8	22	--	32	101	
E-44d 1N/4W-24A2	NE. of San Bernardino; 2,000 feet N. of Foothill Dr., 2,000 feet E. of Del Rosa Ave. Owner: Daley Canyon Mutual Water Co. Casing: 12 inches. Perforated 57-69. S.B.Co.F.C.D. sample point No. 784.	1,617	175	5-26-52[e]	7.9	251	194	0.11	1.2	142	16	10	1	25	6	27	--	40	86	
E-44o 1N/4W-24H4	NE. of San Bernardino; 900 feet N. of Foothill Dr., 620 feet W. of Sterling Ave. Owner: L.F. Bromlow. Use: Domestic. Casing: 12 inches. S.B.Co. F.C.D. sample point No. 478.	1,453	150	6-12-50[e] 4-26-54[e]	9.1 ---	610 ---	348 ---	1.98 2.06	0.9 14.0	38 --	20 --	136 ---	0 --	0 --	2 --	124 ---	-- --	98 --	6 ---	CO_3 = 23 ppm.
E-44x 1N/4W-24B1	NE. of San Bernardino; 280 feet E. of Del Rosa Ave., 500 feet N. of Avery St. Owner: George Watson. Use: Domestic. Casing: 12 inches. Perforated 140-164. S.B.Co.F.C.D. sample point No. 369.	1,415	180	3- 1-49[e]	---	---	624	2.46	10.5	32	32	330	7	--	--	---	--	--	---	CO_3 = 14 ppm.
E-443f	NE. of San Bernardino; 1.25 miles NE. of Bonita Vista (Grand View) Dr., in Borea Canyon; 1,730 feet up canyon from end of existing dirt road. S.B. Co.F.C.D. sample point No. 786, tunnel well.	-----	---	5-26-52[e]	7.6	281	192	0.01	0.6	163	14	10	4	35	9	18	--	24	122	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							DEVIL CANYON BASIN - (continued)													
[illegible]-144f 1N/4W-24C1	NE. of San Bernardino; 550 feet E. of Mountain Ave., 150 feet S. of 40th St. produced. Owner: Dillson Mutual Water Co. Use: Domestic. Casing: 18 inches. S.B.Co.F.C.D. sample point No. 799.	1,410	---	7- 1-52[e]	8.0	874	603	1.53	---	100	34	276	5	21	3	172	1	85	66	
							LIVE OAK BASIN													
[illegible]-622a 1S/8W- 5D1	LaVerne Heights; 750 feet S. and 1,050 feet E. of NW. corner, Sec. 5, T. 1 S., R. 8 W., S.B.B.&M. Owner: LaVerne Water Co. Use: Irrigation. Casing: 18 inches. Perforated 248-277; 365-401; 418-462; 485-465; 490-496; 506-510.	1,285	510	10-16-31[a]	---	369	---	0.47	---	143	12	30	13	27	8	42	--	48	100[b]	
				9-29-37	---	403	---	0.42	---	157	15	45	23	27	7	48	--	52	96[b]	
				4- 1-53	7.8	540	---	0.09	---	134	18	45	81	54	17	31	--	25	205[b]	
				9-30-53[f]	8.2	598	---	----	---	129	24	--	--	--	--	--	--	--	---	CO_3 = Tr.
[illegible]-661f 1S/8W- 5A1	NW. of Claremont; 0.13 mile S. of Base Line Ave., 160 feet W. of San Antonio Ave. Owner: Prof. Sumner. Casing: 12 inches.	1,281	236	6-13-51[i]	7.0	---	438	Tr.	---	164	20	174	25	108	16	4	--	--	336[b]	
				9-30-52[i]	8.4	600	292	----	---	130	28	40	50	65	18	4	--	--	236[b]	CO_3 = 16 ppm.
				9-30-53[f]	7.9	636	450	0.00	0.6	148	21	69	107	73	17	27	2	--	252[b]	
							LYTLE BASIN													
D-1181e 1N/5W-22F1	NW. of Rialto; 0.38 mile NE. of Riverside Ave. from point 0.15 mile NW. of Fontana Powerhouse, 0.35 mile S. and 0.31 mile E. of NW. corner of Sec. 22, T. 1 N., R. 5 W., S.B.B.&M. Owner: Fontana Union Water Co., well No. 25. Use: Irrigation and domestic. Casing: 20 inches. Perforated 205-718. S.B. Co.F.C.D. sample point No. 848.	1,597	718	1- 5-32[a]	---	280	---	0.04	---	159	0	15	1	40	6	11	--	16	125[b]	
				8-15-39	---	290	---	----	---	154	5	14	1	40	6	9	--	13	125[b]	
				10-31-46	---	247	---	0.50	---	153	4	16	1	41	7	10	--	14	131[b]	
				10- 2-52[e]	7.7	290	183	0.07	0.2	159	6	15	3	47	7	6	2	8	145	
				9-30-53	8.0	269	163	0.00	0.4	159	1	16	2	41	6	12	1	17	127[b]	
[illegible]-1181b 1N/5W-22P2	NW. of Rialto; 0.44 mile E. and 0.3 mile S. of NW. corner of Sec. 22, T. 1 N., R. 5 W., S.B.B.&M. Owner: Fontana Union Water Co., well No. 3. Use: Domestic and irrigation. Casing: 20 inches. Perforated 110-380. S.B. Co.F.C.D. sample point No. 847.	1,583	585	10- 2-52[e]	7.7	307	188	0.09	0.4	171	5	13	4	48	10	7	2	9	160	
D-1181d 1N/5W-22P3	NW. of Rialto; 0.52 mile NE. of Riverside Ave., 75 feet NW. of power plant road. Owner: Fontana Union Water Co., well No. 24. Use: Domestic and irrigation. Casing: 14 inches. S.B.Co. F.C.D. sample point No. 390.	1,573	400	7-18-49[e]	7.2	302	195	0.13	0.3	171	6	20	4	46	8	6	--	9	148	
				10- 2-52[e]	7.6	342	204	0.07	0.4	193	5	23	2	51	15	7	2	7	187	
				11- 4-53[f]	8.3	280	177	0.00	0.5	142	6	14	6	48	2	9	2	--	128[b]	CO_3 = 2 ppm.
D-1181f 1N/5W-36J3	NE. of Rialto; 2,650 feet N. of Base Line Ave., 2,600 feet E. of Eucalyptus Ave. Owner: Citizens Land and Water Co., Lord No. 1 well. Use: Domestic and irrigation. Casing: 20 inches. Perforated 218-250; 297-301; 318-324; 331-358; 390-438; 468-478; 478-508.	1,260	629	12-19-31[a]	---	285	---	0.02	---	165	2	12	1	40	7	11	--	15	129[b]	
				12-16-46	---	280	---	0.10	---	165	4	19	4	45	8	10	--	13	145[b]	
				10- 1-53	8.0	300	184	0.00	0.3	173	1	20	4	44	9	9	2	12	147[b]	
E-6w 1N/4W-32N1	SE. of Muscoy; 2,301 feet W. of Muscott St., 179 feet N. of Base Line Ave. Owner: City of San Bernardino, Base Line well. Use: Municipal. Casing: 20 inches. Perforated 126-184; 226-232; 262-304; 312-372; 468-476; 540-560.	1,185	581	9-20-46[c]	---	516	---	0.07	---	229	11	53	--	79	5	18	--	15	218[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							POMONA BASIN													
C-581c 1S/9W-12Q1	S. of La Verne; 700 feet S. of Walnut Ave., 570 feet W. of D St. Owner: San Dimas Water Co. Use: Irrigation. Casing: 18 inches.	1,025	742	5-28-53[f] 10-28-53	7.8 7.9	482 575	327 350	0.10 0.20	0.3 0.3	159 156	30 42	59 93	9 6	36 37	4 7	58 75	2 2	54 57	106[b] 121[b]	
C-583b 1S/9W-12N1	SW. of La Verne; 600 feet S. of Walnut Ave., 480 feet W. of Tonner Ave. Owner: Base Line Water Co., Puddingstone No. 2 well. Use: Irrigation. Casing: 20 inches. Perforated: 120-234.	985	275	10-22-31[a] 9-29-37 2-18-52 5-14-53	--- --- 8.3 8.0	458 506 390 510	--- --- --- ---	0.22 0.18 0.15 0.16	--- --- --- ---	180 200 226 232	14 21 25 18	61 62 48 34	2 3 Tr. 8	29 34 33 34	8 6 8 11	66 68 77 68	-- -- -- --	58 57 59 53	105[b] 110[b] 115[b] 130[b]	
C-611 1S/8W- 7N1	S. of La Verne; 15 feet S. of La Verne Ave., 60 feet E. of Lincoln Ave. Owner: San Dimas Water Co., Yorba well No. 1. Use: Irrigation. Casing: 18 inches. Perforated 73-77; 109-131; 248-272; 293-327; 363-373.	1,043	393	10-22-31[a] 5-28-53[f] 9-30-53[f]	--- 7.7 8.0	304 334 358	--- 226 ---	0.03 0.00 ----	--- 0.3 ---	159 159 161	7 15 14	15 22 --	6 19 --	37 42 --	10 8 --	20 22 --	-- 2 --	24 39 --	134[b] 138[b] ---	
C-611m 1S/8W-12R1	S. of La Verne; 85 feet S. of Orange St., 75 feet W. of E St. Owner: Durwood Well Co. Use: Domestic and irrigation. Casing: 18 inches. Perforated 475-500; 536-560; 574-600; 696-715; 738-760.	1,036	873	9-30-53[f]	8.0	391	180	0.27	0.4	153	14	29	34	44	9	24	1	--	147[b]	
C-649e 1S/8W-18J1	Pomona; 750 feet S. of La Verne Ave., 400 feet E. of Garey Ave. Owner: City of Pomona, well No. 3. Use: Municipal. Casing: 14 inches. Perforated 116-142; 168-176; 312-316; 444-450; 480-492; 506-552; 640-662.	990	676	5-18-31[a] 7-19-51[i] 11- 2-53	--- 6.7 8.0	--- --- 424	--- 290 226	---- ---- 0.08	--- --- 0.4	157 168 163	9 16 8	20 183 36	-- 25 39	-- 76 38	-- 16 7	-- 44 42	-- -- 1	-- -- 43	--- 256[b] 124	
C-665 1S/8W-10N1	Claremont; 110 feet E. of College Ave., 55 feet S. of A.T.&S.F.R.R., E. well of two. Owner: Del Monte Irrigation Co., well No. 226. Use: Irrigation. Casing: 16 inches. Perforated 170-435.	1,150	450	10-22-31[a] 10-22-53	--- 8.3	269 261	--- 158	0.06 0.00	--- 0.1	143 134	5 4	15 18	2 2	22 23	4 2	38 34	-- 1	54 52	71[b] 66[b]	CO_3 = 5 ppm.
C-666 1S/8W-16B1	Claremont; 155 feet E. of St. Paul St., 315 feet N. of Cucamonga Ave. Owner: Harrison Avenue Water Co. Use: Irrigation. Casing: 16 inches.	1,115	500	5-27-53[f] 9-30-53[f]	7.9 7.9	402 412	274 210	0.00 0.09	0.1 0.2	142 141	34 33	26 28	27 25	39 39	4 5	44 42	2 2	-- --	114[b] 118[b]	
C-667k 1S/8W-17K1	Pomona; 1,300 feet N. of La Verne Ave., 900 feet W. of Towne Ave. Owner: City of Pomona, well No. 8. Use: Municipal. Gravel 107-222; 298-320; 329-335; 392-420; 431-477; 485-521; 523-525; 586-603; 623-654; 774-786; 792-807; 815-827.	1,017	900	5-18-31[a] 7-19-51[i] 11- 2-53	--- 6.8 7.9	--- --- 495	--- 352 277	---- ---- 0.02	--- --- 0.2	151 152 161	7 16 11	34 214 49	-- 10 60	-- 100 60	-- 15 6	-- 27 36	-- -- 1	-- -- 32	--- 312[b] 175[b]	
C-670w 1S/8W-20D1	Pomona; 95 feet NE. of Willow St., 400 feet NW. of Orange Grove Ave. Owner: Irrigation Company of Pomona, West well. Use: Irrigation. Casing: 16 inches. Perforated 370-410; 416-432; 440-464.	953	624	6- 6-40 9-30-53[f]	--- 8.0	290 388	--- 193	---- 0.33	--- 0.4	143 148	11 13	29 35	7 29	15 21	2 4	60 59	-- 1	74 --	46 69[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO₃)	Chloride (Cl)	Sulphate (SO₄)	Nitrate (NO₃)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							RECHE CANYON BASIN													
[illegible] 1N/4W-34G1	SW. of Loma Linda; 0.45 mile S. of Barton Rd., 100 feet W. of Reche Canyon Rd. Owner: K.H. Moore. Use: Domestic. Casing: 6 inches. S.B.Co. F.C.D. sample point No. 842.	1,082	120	9-24-52[e]	7.5	472	294	0.18	0.7	198	47	12	14	40	12	44	2	39	148	
E-115f 2S/4W-12P1	SW. of Loma Linda; 3.7 miles S. of Barton Rd., 125 feet E. of Reche Canyon Rd. Owner: B.S. Daluiso (Melody Ranch). Use: Domestic. Casing: 6 inches. Perforated 0-60. S.B.Co.F.C.D. sample point No. 843.	1,505	149	9-24-52[e]	7.0	523	361	0.11	0.5	185	48	21	31	51	15	30	2	--	187	
							RIALTO BASIN													
D-1072 1S/5W- 5A3	N. of Fontana; 50 feet S. of Base Line Rd., 500 feet W. of Alder Ave. Owner: Fontana Union Water Co., well No. 22. Use: Domestic and irrigation. Casing: 20 inches.	1,406	842	10-22-53	8.2	340	200	0.00	0.1	173	4	12	8	53	5	10	2	--	153[b]	CO_3 = 7 ppm.
D-[illegible]72a 1S/5W- 5A2	N. of Fontana; 55 feet S. of Base Line Rd., 634 feet W. of Alder Ave. Owner: Fontana Union Water Co., well No. 23. Use: Irrigation. Gravel [illegible]; [illegible]-446; 384-398; 452-487; 510-543. S.B. Co.F.C.D. sample point No. 389.	1,409	543	12-15-31[a] 7-18-49[e] 10- 2-52[e]	--- 7.2 7.7	318 345 337	--- 225 213	0.11 0.11 0.05	--- 0.3 0.1	183 195 195	6 11 7	9 14 13	2 13 6	50 52 56	8 10 8	11 10 10	-- -- 2	13 11 11	158[b] 171 172	
D-1073 1S/5W- 4D1	W. of Rialto; 425 feet W. of Laurel Ave., 716 feet S. of Base Line Rd., 30 feet S. of owner's No. 2. Owner: West Rialto Water Co., well No. 1. Use: Irrigation. S.B.Co.F.C.D. sample point No. [illegible].	1,390	536	9-23-32[a] 7-18-49[e] 10- 2-52[e]	--- 7.2 7.6	311 326 320	--- 219 197	0.01 0.13 0.09	--- 0.2 0.1	174 185 183	2 9 7	7 18 8	1 10 5	46 50 49	9 9 8	10 7 8	-- -- 2	13 9 9	152[b] 161 176	
D-1085 1S/5W- 2K1	Rialto; 1,000 feet N. of Foothill Blvd., 200 feet E. of Willow Ave. Owner: Lytle Creek Water and Improvement Co., Willow Ave. well. Use: Irrigation. Casing: 20 inches. Gravel 107-250; 252-256; 260-284; 294-296; 310-370; 380-382; 388-402; 414-[illegible]; 436-[illegible]; 618-634; [illegible]-742; [illegible]-787. S.B.Co.F.C.D. sample point No. [illegible].	1,287	828	9- 2-32[a] 7-18-49[e]	--- 7.3	318 309	--- 204	0.01 0.15	--- 0.2	180 183	4 12	2 15	1 3	48 49	8 8	12 7	-- --	15 8	153[b] 158	
[illegible]-1161 1N/5W- 6G1	N. of Fontana; 175 feet NE. of Lytle Creek Canyon Rd., 1.26 miles NW. from Cajon Connection, in Lytle Creek Canyon. Owner: Fontana Union Water Co., well No. 27. Use: Irrigation. Casing: 4-foot concrete caisson. S.B.Co. F.C.D. sample point No. 391.	2,244	113	9- 2-32[a] 7-18-49[e] 11- 4-53[f]	--- 7.0 8.2	292 299 311	--- 211 201	0.02 0.10 0.05	--- 0.3 0.5	156 159 156	2 8 7	20 26 23	1 7 1	41 40 47	12 10 8	10 10 7	-- -- 3	12 14 --	152[b] 142 150[b]	CO_3 = Trace.
D-1162a 1N/5W- 7E1	N. of Fontana; 0.25 mile NE. of Riverside Ave., 400 feet NW. of Cajon Connection. Owner: Fontana Union Water Co., well No. 26. Use: Irrigation. Casing: 4-foot concrete caisson. S.B. Co.F.C.D. sample point No. 849.	2,066	131	10- 2-52[e]	7.6	282	176	0.05	Tr.	149	5	19	2	43	8	6	2	8	142	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO₃)	Chloride (Cl)	Sulphate (SO₄)	Nitrate (NO₃)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as CaCO₃, in ppm	Remarks
							RIALTO BASIN - (continued)													
D-1162d 1N/5W- 6K2	N. of Fontana; 0.25 mile NE. of Lytle Creek Canyon Rd., 0.75 mile NW. of Cajon Connection. Owner: Fontana Union Water Co., well No. 33. Use: Irrigation. Casing: 20 inches. S.B.Co.F.C.D. sample point No. 850.	2,145	169	10- 2-52[e]	7.5	294	182	0.05	0.6	156	7	22	2	43	10	10	2	12	150	
D-1170b 1N/5W-17K1	N. of Fontana; 300 feet SW. of Riverside Ave., 5,600 feet NW. of intersection with Locust Ave. Owner: Fontana Union Water Co., well No. 15. Use: Domestic. Casing: 20 inches. Perforated 80-120; 17[illegible]-[illegible]; 212-224. S.B.Co.F.C.D. sample point No. 399.	1,853	325	12-15-31[a]	---	305	---	0.09	---	186	6	7	0	44	10	11	--	13	151[b]	
				10-13-37	---	305	---	0.12	---	164	7	15	2	43	45	9	--	13	292[b]	
				7-27-49[e]	7.2	298	190	0.00	0.2	161	7	19	2	38	10	9	--	13	133	
D-1177a 1N/5W-28J1	NE. of Fontana; 0.36 mile N. of Highland Ave., 50 feet W. of Linden Ave. Owner: W.B. Brazelton. Use: Irrigation. Casing: 16 inches. Perforated 440-495; 530-555; 608-623; 690-709; 720-730; 750-773.	1,501	779	9-23-32[a]	---	310	---	0.06	---	171	4	10	1	42	10	10	--	13	146[b]	
				6- 9-47	---	321	---	0.10	---	192	6	12	43	54	10	18	--	18	176[b]	
				4- 2-53	8.1	290	---	0.00	---	165	2	21	2	46	8	12	--	15	148[b]	
							RIVERSIDE BASIN													
D-968a 2S/5W-29C1	W. of Riverside; 400 feet SE. of Riverview Dr., 1,500 feet SW. of Moulton Rd., 1,800 feet NE. of U.P.R.R. bridge. Owner: McIntosh. Use: Irrigation and domestic.	728	---	2-27-33[a]	---	677	---	0.11	---	354	16	47	2	84	22	38	--	21	300[b]	
				6- 6-47	---	794	---	0.10	---	296	58	107	11	80	37	49	--	23	352[b]	
D-968b 2S/5W-29A1	W. of Riverside; 0.53 mile SE. of Riverview Dr., 0.38 mile SW. of Sewer Farm Rd. (which is 1.5 mile SW. of Mission Blvd.) Owner: City of Riverside. Use: Domestic. Casing: 8 inches.	735	46	2-27-33[a]	---	959	---	0.14	---	387	87	56	Tr.	102	25	73	--	31	358[b]	
				6- 6-47	---	878	---	0.40	---	391	58	96	Tr.	85	20	96	--	41	295[b]	
				5-22-53	8.2	1,150	---	0.39	---	396	110	160	3	116	30	104	--	38	413[b]	
				12- 4-53	8.0	2,427	1,594	1.30	1.6	464	352	289	130	187	52	270	9	--	681[b]	
D-971a 2S/5W- 8Q1	West Riverside; 150 feet N. of Mission Blvd., 100 feet W. of Opal Ave. Owner: A.B. Long. Use: Domestic. Casing: 6 inches.	865	96	11-12-31[a]	---	794	---	0.14	---	326	48	---	--	---	--	---	--	--	---	
				5-26-47	---	1,052	---	0.10	---	381	67	129	53	81	36	118	--	42	350[b]	
				4-16-48	---	1,076	---	0.10	---	401	67	135	79	80	32	140	--	48	332[b]	
D-975c 2S/5W-16A1	West Riverside; 200 feet SE. of A St., 0.2 mile NE. of Wilson St. Owner: E.K. Smith. Use: Domestic.	816	70	11-12-31[a]	---	872	---	0.19	---	357	59	82	9	81	30	73	--	33	326[b]	
				9-30-37	---	1,140	---	0.16	---	386	81	122	77	110	37	87	--	31	427[b]	
				8-16-39	---	1,140	---	----	---	404	75	124	27	107	32	80	--	32	399[b]	
				10-31-46	---	990	---	0.40	---	427	73	134	32	99	37	108	--	37	400[b]	
				4-16-48	---	1,010	---	0.20	---	436	69	129	12	87	34	109	--	40	357[b]	
				5-18-51	7.7	1,140	---	0.12	---	482	74	149	27	99	38	118	--	39	404[b]	
				3-17-52	7.7	1,050	---	0.20	---	512	75	146	22	105	35	133	--	41	406[b]	
				5-22-53	7.7	1,200	---	0.20	---	476	78	144	21	102	38	81	--	40	411[b]	
D-975d 2S/5W-16M1	West Riverside; 850 feet SE. of Riverview Dr., 0.6 mile SW. of intersection of Riverview Dr. and Mission Blvd. Owner: W.S. Pitney. Use: Domestic. Casing: 5-foot by 5-foot dug pit.	770	23	2-27-33[a]	---	1,290	---	0.22	---	418	156	74	13	112	43	97	--	32	457[b]	
				2-24-47	---	957	---	0.00	---	434	64	137	13	101	39	92	--	33	413[b]	
				5-22-53	7.8	1,260	---	0.14	---	464	106	159	26	120	50	110	--	32	506[b]	
D-983c 2S/5W-10F1	NE. of West Riverside; 0.1 mile NW. of Bloomington Rd., 100 feet SW. of 26th St. Owner: W.M. Spires. Use: Domestic. Casing: 8 inches. Perforated 90-105.	867	125	12- 4-53	8.1	800	499	0.04	0.1	288	56	86	12	91	15	55	3	--	289[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25° C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								RIVERSIDE BASIN - (continued)												
D-984 2S/5W- 3C1	S. of Crestmore; 50 feet SE. of Cedar St., 50 feet S. of El Rivino Rd. Owner: E.W. Bigger. Use: Domestic. Casing: 16 inches. Perforated 93-106; 120-139; 175-183. S.B.Co.F.C.D. sample point No. 674.	930	201	12-13-51[c]	7.2	480	294	0.00	0.1	149	54	12	23	51	5	33	---	33	148	
D-985d 2S/5W-11A1	N. of Riverside; 0.3 mile E. of Brown Ave., on line of Wilson Dr. produced. Owner: Riverside Water Co., Jurupa No. 1. Use: Irrigation. Casing: 12 inches.	823	140	11-27-53[c]	---	671	---	----	---	223	25	119	13	107	4	31	--	19	284[b]	
D-985e 2S/5W- 2R3	N. of Riverside; 0.3 mile E. of Brown Ave., 150 feet N. of Wilson Dr. produced, 25 feet E. of D-985d. Owner: Riverside Water Co., Jurupa No. 3. Use: Irrigation. Casing: 12 inches.	823	---	11-27-53[c]	---	874	---	----	---	241	28	216	8	126	15	42	--	20	377[b]	
D-985k 2S/5W- 2R1	N. of Riverside; 0.3 mile E. of Brown Ave., 265 feet N. of Wilson Dr. produced, 15 feet W. of D-985d. Owner: Riverside Water Co., Jurupa No. 5. Use: Irrigation. Casing: 12 inches.	823	---	11-27-53[c]	---	581	---	----	---	198	21	98	13	95	3	26	--	18	250[b]	
D-985m 2S/5W- 2P1	NW. of Riverside; 80 feet W. of Brown Ave., 500 feet N. of Wilson Dr. Owner: Fred Behrends. Use: Domestic. Casing: 8 inches. Perforated 80-98.	900	100	12- 4-53	8.0	633	390	0.04	0.3	256	14	49	49	60	14	53	3	--	208[b]	
D-1070 1S/5W-34A1	NE. of Crestmore; 75 feet S. of Jurupa Ave., 739 feet E. of Spruce St. Owner: Reid and Moss. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 678.	971	---	12-13-51[e]	7.9	520	342	0.00	Tr.	210	23	23	43	70	11	18	--	15	217	
D-1070a 1S/5W-34B2	NE. of Crestmore; 1,056 feet S. of Jurupa Ave., 60 feet E. of Larch Ave. Owner: Wallace Woodworth (Crestmore Ranch). S.B.Co.F.C.D. sample point No. 676.	987	---	12-13-51[e]	7.6	810	625	0.00	0.1	226	103	27	37	106	14	24	---	14	320	
D-1070b 1S/5W-34D1	Crestmore; 425 feet E. of Linden Ave., 185 feet S. of Jurupa Ave. Owner: Crestmore Ranch. Use: Domestic and irrigation.	997	---	11-13-31[a]	---	443	---	0.03	---	195	25	19	9	63	10	20	---	18	199[b]	
				10-18-37	---	460	---	0.04	---	218	31	18	14	66	10	19	--	17	206[b]	
				10-31-46	---	473	---	0.20	---	180	25	46	25	51	9	44	--	37	164[b]	
				5- 4-51	8.2	550	---	0.01	---	232	21	42	50	67	7	46	--	34	198[b]	
				5-14-53	8.0	470	---	0.00	---	201	25	14	25	66	8	23	--	20	198[b]	
D-1070e 1S/5W-34G1	NE. of Crestmore; 90 feet S. of Jurupa Ave., 739 feet W. of Spruce Ave. Owner: Sam Elle. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 677.	995	250	12-13-51[e]	7.5	550	342	0.00	0.1	212	45	17.	34	73	12	18	---	15	232	
D-1070f 1S/5W-34H1	Crestmore; 400 feet N. of Armstrong Rd., 600 feet E. of Cedar Ave. Owner: Mike Cassetti. Use: Domestic. S.B.Co.F.C.D. sample point No. 675.	963	150	12-13-51[e]	7.6	620	415	0.00	0.1	220	48	17	36	84	10	22	---	16	252	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC_{25}10^6$ at 21°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							RIVERSIDE BASIN - (continued)													
D-1079h 1S/5W-33A2	NE. of Crestmore; 300 feet W. of Linden Ave., 750 feet S. of Jurupa Ave. Owner: Santa Fe Vintage Co. S.B.Co. F.C.D. sample point No. 944.	1,002	---	7-14-53[e]	7.4	509	315	0.01	0.7	181	35	17	36	48	14	34	2	29	178	
D-1088a 1S/5W-23Q1	E. of Bloomington; 600 feet W. of Riverside Dr., 100 feet N. of Slover Ave. Owner: Henry Cram. Use: Domestic and irrigation. S.B.Co.F.C.D. sample point No. 671.	1,019	---	12-13-51[e]	8.2	420	271	0.00	0.2	210	13	19	21	62	6	14	--	14	181	
				2- 9-54[e]	7.7	503	318	0.05	0.2	203	16	39	32	72	9	19	3	16	215	
D-1090n 1S/5W-35G1	SE. of Bloomington; 0.75 mile NW. of Agua Mansa Rd., 300 feet W. of Willow Ave. Owner: Dunbrick Manufacturing Co. S.B.Co.F.C.D. sample point No. 673.	919	---	12-13-51[e]	7.6	420	266	0.00	0.2	198	15	14	20	59	8	10	--	11	181	
				2- 9-54[e]	8.2	412	256	0.22	0.2	202	10	24	20	60	9	14	2	14	185	
D-1090i 1S/5W-35D1	SE. of Bloomington; 60 feet S. of Jurupa Ave., 60 feet E. of Cactus Ave. Owner: Joe Bruno. S.B.Co.F.C.D. sample point No. 929.	967	---	5-15-53[e]	8.1	542	327	0.00	0.3	217	33	23	33	60	16	27	2	21	219	
D-1090k 1S/5W-35J2	SE. of Bloomington; 300 feet N. of Agua Mansa Rd., 90 feet E. of Riverside Dr. S.B.Co.F.C.D. sample point No. 672.	892	---	12-13-51[e]	7.6	520	336	0.00	0.2	212	15	28	40	62	13	20	--	17	206	
				2- 9-54[e]	8.4	505	336	0.36	0.4	198	13	43	39	66	10	28	3	23	209	CO_3 = 10 ppm.
D-1091 1S/5W-36B1	SW. of Colton; 600 feet SE. of Agua Mansa Rd., 2,300 feet NE. of Riverside Dr. Owner: D.O. Taylor. Use: Irrigation. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 239.	869	125	9- 3-47[e]	7.2	486	244	0.00	0.0	227	21	61	37	49	20	40	--	25	256	
				1- 8-48[e]	7.2	526	285	0.12	0.4	222	17	55	31	52	16	26	--	23	195	
				6-29-48[e]	7.0	554	348	0.15	0.0	221	17	69	29	80	12	21	--	15	249	
				10-10-49[e]	7.0	562	382	0.18	0.0	217	17	68	35	73	12	22	--	17	231	
				10-31-51[e]	7.5	580	384	0.00	0.1	210	17	54	42	76	11	25	--	19	234	
				8-27-52[e]	7.5	813	555	0.01	0.2	210	32	198	39	120	18	38	2	18	377	
				11- 2-53[f]	8.0	595	335	0.00	0.3	203	17	83	42	80	11	27	4	--	245[b]	
D-1091a 1S/5W-36C5	W. of Colton; 310 feet W. of Eucalyptus Ave., 150 feet NW. of Agua Mansa Rd. Owner: Jurupa Water Co., Plant No. 1. Use: Irrigation. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 394.	880	300	Sept., 1918[a]	---	---	---	----	---	185	9	18	6	45	19	4	--	5	191[b]	
				7-27-49[e]	7.2	306	278	0.00	0.2	193	12	34	28	52	11	20	--	19	176	
				10-31-51[e]	7.6	470	312	0.00	0.3	191	12	25	36	63	9	18	--	17	194	
D-1092d 1S/5W-25B2	W. of Colton; 500 feet S. of Slover Ave., 2,300 feet W. of Meridian Ave. Owner: Jacob Steinberg. Use: Irrigation. Casing: 12 inches. S.B.Co.F. C.D. sample point No. 200.	1,040	279	1-20-47[e]	7.2	376	229	0.07	---	173	9	28	61	54	12	15	--	34	186	
				9- 3-47[e]	6.8	345	222	0.00	0.0	194	12	25	20	47	16	43	--	20	182	
				1- 8-48[e]	7.1	392	133	0.16	0.3	185	15	19	22	52	14	19	--	18	186	
				10-10-49[e]	7.0	428	290	0.00	0.0	193	12	33	26	56	14	6	--	6	200	
				12- 4-50[e]	7.9	457	318	0.00	0.1	210	12	28	30	62	11	17	--	16	200	
				10-31-51[e]	7.3	440	305	0.00	0.0	198	12	22	29	58	11	16	--	15	189	
				8-27-52[e]	7.6	450	364	0.05	0.0	217	11	22	30	60	13	18	2	16	206	
				11- 2-53[f]	8.4	448	311	0.00	0.2	193	13	32	28	66	9	16	2	--	202[b]	CO_3 = 2 ppm.

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Sema and state well numbers	Location and description	Elevation of ground surface (U.S.G.S. datum)	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								RIVERSIDE BASIN - (continued)												
D-1092e 1S/5W-25R2	SW. of Colton; 4,500 feet W. of Rancho Ave., 30 feet N. of Agua Mansa Rd. Owner: Twin Buttes Water Co., Plant No. 6. Use: Irrigation. S.B.Co.F.C.D. sample point No. 235.	875	275	1-28-20[a]	---	---	---	----	---	256	252	94	1	120	32	106	--	35	432[b]	
				8- 5-29[a]	---	---	---	----	---	183	17	46	--	63	10	11	--	11	199[b]	
				9- 2-47[e]	6.7	390	383	0.00	0.5	206	27	107	38	80	15	44	--	27	259	
				1- 8-48[e]	7.1	552	354	0.00	0.4	208	26	72	20	68	14	21	--	17	224	
				6-29-48[e]	7.0	568	372	0.39	0.0	207	23	89	19	79	13	38	--	25	250	
				10-10-49[e]	7.0	610	407	0.00	0.2	198	23	106	23	73	12	25	--	19	230	
				10-31-51[e]	7.6	670	436	0.00	0.3	187	24	113	27	74	12	44	--	29	232	
				8-27-52[e]	7.4	753	572	0.05	0.5	207	35	163	28	89	14	56	4	30	280	
				11- 2-53[f]	7.7	650	430	0.00	0.6	161	23	131	26	74	8	41	12	--	218[b]	
D-1092k 1S/5W-25M1	SE. of Bloomington; 0.1 mile S. of Santa Ana Ave., 0.3 mile E. of Riverside Dr. Owner: Holliday Rock and Gravel Co. S.B.Co.F.C.D. sample point No. 201.	997	180	1-20-47[e]	7.6	416	247	0.10	---	195	11	26	32	64	10	11	--	10	203	
				1- 8-48[e]	7.6	414	257	0.04	---	195	13	26	24	56	12	20	--	18	191	
				10-10-49[e]	7.0	438	289	0.08	0.0	200	12	28	21	60	11	5	--	5	195	
				12- 4-50[e]	8.5	450	302	0.00	0.2	200	12	29	24	62	8	17	--	16	185	
				10-31-51[e]	7.7	450	294	0.00	0.1	205	13	23	29	64	11	16	--	14	202	
				12-13-51[e]	7.9	440	294	0.00	0.6	203	12	20	25	61	9	11	--	11	189	
				8-27-52[e]	7.8	442	128	0.03	0.1	205	11	29	30	62	13	14	2	13	208	
				2- 9-54[e]	8.0	433	267	0.08	0.3	195	9	30	22	59	11	16	2	15	192	
D-1092n 1S/5W-24Q1	W. of Colton; 150 feet N. of Slover Ave., 50 feet W. of Pepper Ave., 1.05 miles E. of Riverside Dr. Owner: General American Transportation Corp. Use: Domestic. Casing: 14 inches. Perforated 30-150; 200-300. S.B.Co.F.C.D. sample point No. 253.	1,057	300	1- 8-48[e]	6.7	471	267	0.00	0.4	189	13	34	31	58	14	16	--	15	202	
				2-25-48[e]	7.4	452	290	0.03	0.3	189	10	35	28	68	5	15	--	15	189	
				3-23-48[e]	6.6	434	303	0.12	0.3	189	1	39	26	64	12	18	0	16	210	
				6- 9-48[e]	7.0	424	301	0.00	0.3	206	12	35	29	64	10	5	--	6	201	
				10-10-49[e]	6.8	449	306	0.06	0.0	168	12	34	33	62	12	10	--	10	201	
				12- 4-50[e]	7.9	453	317	0.02	0.1	195	10	30	26	62	10	17	--	16	195	
				10-31-51[e]	7.6	450	293	0.00	0.3	193	12	15	33	62	10	17	--	16	194	
				8-27-52[e]	7.3	442	327	0.06	0.3	198	11	30	34	60	13	15	2	14	204	
				2- 9-54[e]	7.8	403	253	0.00	0.3	190	6	32	22	55	10	16	3	16	181	
D-1092o 1S/5W-25F1	W. of Colton; 0.32 mile E. of Riverside Dr., 100 feet N. of Santa Ana Ave. Owner: R.A. Erwin (California Asphalt Co.). Use: Industrial. Casing: 10 inches. Perforated 120-202. S.B.Co.F.C.D. sample point No. 670.	967	202	12-13-51[e]	7.7	440	292	0.00	0.0	210	12	20	27	64	8	11	--	11	194	
				8-27-52[e]	7.8	452	352	0.03	0.1	215	15	40	43	72	12	21	3	16	229	
				2- 9-54[e]	7.8	433	267	0.05	0.3	198	8	30	22	59	11	14	3	14	192	
D-1093 1S/5W-24B1	E. of Bloomington; 1 mile W. of Meridian Ave., 200 feet N. of Colton Blvd. Owner: Morrow Airport. S.B.Co.F.C.D. sample point No. 236.	1,070	261	9- 3-47[e]	7.0	406	214	0.00	0.3	204	14	24	23	48	14	22	--	21	178	
				10-10-49[e]	6.8	411	271	0.00	0.2	198	13	22	23	60	10	5	--	6	190	
				10-31-51[e]	7.8	420	270	0.00	0.1	203	14	11	23	63	7	14	--	14	185	
				2- 9-54[e]	7.8	669	531	0.14	---	154	104	36	26	83	9	37	4	24	245	
D-1093a 1S/5W-24M1	E. of Bloomington; 0.25 mile E. of Riverside Dr., 500 feet S. of Colton Blvd. S.B.Co.F.C.D. sample point No. 256.	1,039	---	2-25-48[e]	7.0	443	---	0.02	0.1	201	11	23	22	65	4	14	--	14	181	
				12- 4-50[e]	7.7	417	281	0.00	Tr.	205	12	17	22	62	7	14	--	14	183	
				10-31-51[e]	7.8	430	287	0.00	0.1	201	14	16	27	63	7	15	--	14	187	
E-67j 2S/5W- 1M4	N. of Riverside; 200 feet E. of Main St., on S. side of Santa Ana River. Owner: J.H. Carlile. Use: Domestic and stock. Casing: 1¼ inches. S.B.Co.F.C.D. sample point No. 421.	840	18	10-10-49[e]	7.0	1,015	624	0.49	0.2	354	99	96	5	114	22	51	--	23	377	
E-68k 2S/5W-12C1	N. of Riverside; 542 feet E. of Main St., 91 feet S. of Placentia Lane. Owner: E.I. Roach. Use: Domestic. Casing: 8 inches. Perforated 43-58.	835	60	12- 4-53	7.4	943	610	0.24	0.5	290	71	163	4	114	23	62	5	--	380[b]	
E-69 2S/5W-12R1	NE. of Riverside; 135 feet N. of Chase Rd. produced, 130 feet W. of Orange St. Owner: Riverside Water Co., Spanish Town well. Use: Irrigation.	835	---	Feb., 1920[a]	---	---	---	----	---	220	18	43	3	53	12	32	--	28	182[b]	
				6- 6-47	---	339	---	0.00	---	187	5	18	4	41	8	26	--	29	135[b]	
				5-15-53	7.9	440	---	0.08	---	214	16	28	6	47	14	30	--	27	175[b]	
E-71b 1S/4W-30R2	W. of Colton; 200 feet E. of Meridian Ave., 800 feet S. of Slover Ave. Owner: California Portland Cement Co. S.B.Co.F.C.D. sample point No. 199.	983	150	1-20-47[e]	7.3	502	297	0.29	---	218	13	37	49	75	12	18	--	16	235	
				9- 3-47[e]	7.0	485	270	0.22	0.4	248	25	48	28	53	15	26	2	23	194	
				1- 8-48[e]	7.1	485	308	0.00	0.3	232	18	39	22	73	17	16	--	12	252	
				10-31-51[e]	7.6	500	350	0.00	0.2	205	13	22	40	71	9	18	--	16	215	
				2- 9-54[e]	7.6	489	322	----	Tr.	195	9	48	39	65	12	21	3	18	213	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						RIVERSIDE BASIN - (continued)														
E-71d 1S/4W-30D6	W. of Colton; 520 feet S. of Slover Ave. produced, 100 feet E. of Meridian Ave. Owner: California Portland Cement Co., well No. 5. S.B.Co.F.C.D. sample point No. 420.	995	---	10-10-49[e]	7.0	504	339	0.00	0.0	242	14	44	24	69	12	10	--	9	220	Composite of 2 wells
				10-31-51[e]	7.6	500	350	0.00	0.2	205	13	22	40	71	9	18	--	16	215	
				8-27-52[e]	7.5	508	340	0.06	0.4	207	13	62	3	72	12	18	3	14	229	
				2- 9-54[e]	7.6	493	315	0.00	0.4	200	10	53	38	69	11	19	3	16	217	
E-72d 1S/4W-30L1	SW. of Colton; 0.35 mile W. of Rancho Ave., 50 feet N. of Agua Mansa Rd. Owner: Concrete Block Manufacturing Co. S.B.Co.F.C.D. sample point No. 822.	905	110	8-27-52[e]	7.4	848	531	0.09	0.2	364	28	84	25	113	11	52	10	25	326	
E-73a 2S/4W- 6Q2	Highgrove; 0.25 mile N. of Main St., 225 feet W. of La Cadena Ave. Owner: Nequet. Use: Domestic and irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 640.	890	289	6-11-51[e]	7.7	1,455	993	0.16	0.2	156	65	157	68	95	7	84	--	41	264	
				9-11-52[e]	7.2	1,690	1,137	0.12	0.3	410	228	218	74	209	40	95	9	23	685	
E-74d 2S/4W- 7L1	Highgrove; 1,000 feet W. of Iowa St., 800 feet S. of Villa St. Owner: Riverside Water Co., Highgrove well. Use: Irrigation. Casing: 20 inches. Perforated 40-54; 104-134; 150-190; 228-240; 324-334; 370-380.	890	402	March, 1929[a]	---	-----	-----	----	---	340	60	---	--	---	--	--	--	--	---	
				8- 1-30[a]	---	-----	-----	----	---	---	25	---	--	---	--	--	--	--	---	
				11-27-53[c]	---	712	-----	----	---	262	39	100	18	120	1	39	--	22	304[b]	
E-74e 2S/4W- 7N1	W. of Highgrove; 75 feet E. of La Cadena Ave., 200 feet N. of Oxford St. Owner: Riverside Water Co., Palmyrita well. Use: Irrigation. Casing: 24 inches. Perforated 28-42; 69-72; 80-83; 88-123; 128-130; 147-160; 178-180; 190-209; 253-265; 330-335.	885	393	8- 1-30[a]	---	-----	-----	----	---	---	51	---	--	---	--	--	--	--	---	
				11-27-53[c]	---	832	-----	----	---	287	64	111	13	122	7	54	--	26	334[b]	
E-74g 2S/4W- 8D1	N. of Highgrove; 390 feet S. of Main St., 190 feet E. of S.P.R.R. Owner: University of California, Highgrove well. Use: Irrigation. Perforated 135-320.	957	320	Jan., 1919[a]	---	-----	-----	----	---	235	31	41	4	64	10	44	--	32	201[b]	
				4-19-28[a]	---	-----	-----	----	---	271	42	53	--	54	28	40	--	26	250[b]	
				8-15-28[a]	---	-----	-----	----	---	268	50	54	--	46	23	50	--	33	210[b]	
				3- 5-31[a]	---	681	-----	0.08	---	268	52	52	--	73	16	45	--	28	248[b]	
				4-18-31[a]	---	734	-----	0.04	---	268	71	48	13	77	17	55	--	31	262[b]	
				6- 6-47	---	685	-----	0.20	---	279	41	73	14	79	16	57	--	32	271[b]	
				5-25-53	8.0	820	-----	0.20	---	269	85	58	29	90	20	64	--	31	307[b]	
E-74h 2S/4W- 8D2	Highgrove; 600 feet S. of Main St., 75 feet E. of Taylor St. produced. Owner: University of California, Agricultural Experiment Station in Riverside. S.B. Co.F.C.D. sample point No. 830.	958	600	9-11-52[e]	7.2	824	515	0.09	0.6	266	91	46	28	87	22	64	4	31	308	
E-75c 1S/4W-30J1	SW. of Colton; 75 feet S. of Agua Mansa Rd., 100 feet E. of 3rd St. Owner: M.M. Soares. S.B.Co.F.C.D. sample point No. 845.	915	38	10- 3-52[e]	8.0	704	459	0.02	0.2	252	36	84	41	98	21	15	2	9	330	
E-76b 1S/4W-31A1	S. of Colton; 42 feet NE. of 3rd St., 720 feet NW. of intersection with La Cadena Ave. Owner: Concrete Conduit Co., Colton Plant. Use: Domestic. Casing: 10 inches.	904	81	3-29-51[c]	7.8	767	272	----	---	287	49	73		87	14	48	--	28	275[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						RIVERSIDE BASIN - (continued)														
E-77 2S/4W- 6A3	S. of Colton; 140 feet S. of Barton Rd., 500 feet E. of La Cadena Ave., 300 feet E. of Terrace Dr. produced. Owner: Temescal Water Co., Palm Ave. well. Use: Irrigation. Casing: 16 inches. Perforated 127-237; 247-351.	990	372	Aug., 1928[a]	---	---	---	----	---	229	32	38	--	52	24	20	--	16	229[b]	
				11-28-49[c]	---	547	---	0.05	---	204	23	72	--	70	6	34	--	27	200[b]	
E-77b 2S/4W- 6A1	S. of Colton; 135 feet W. of La Cadena Ave., 12 feet S. of Barton Rd. (Palm Ave.). Owner: Merrifield Water Co. Use: Irrigation. Casing: 12 inches.	950	200	Sept., 1918[a]	---	---	---	----	---	247	21	40	46	73	15	38	--	25	244[b]	
				7-31-47	---	625	---	0.10	---	232	24	94	16	80	15	30	--	20	262[b]	
				12-16-47	---	510	---	0.20	---	215	21	84	89	75	13	65	--	37	241[b]	
				5-25-53	8.0	750	---	0.09	---	269	57	92	24	97	23	38	--	19	337[b]	
E-77e 2S/4W- 6R1	N. of Highgrove; 100 feet N. of Main St., 60 feet W. of A.T.&S.F.R.R. Owner: Riverside Highland Water Co., County Line well. Use: Irrigation. Casing: 20 inches. Perforated 80-227; 262-346; 362-380. S.B.Co.F.C.D. sample point No. 831.	942	420	6-24-29[a]	---	---	---	----	---	280	40	53	--	72	20	35	--	22	262[b]	
				9-11-52[a]	7.7	656	423	0.12	0.6	259	39	62	17	74	21	32	4	20	273	
E-80 2S/4W-24Q1	S. of Colton; 3,500 feet S. of N St., 1,916 feet W. of Mt. Vernon Ave. Owner: Riverside Water Co., Flume No. 5 well. Use: Irrigation. Casing: 20 inches. Perforated 76-300.	915	327	8- 1-30[a]	---	---	---	----	---	---	28	--	--	---	--	--	--	--	---	
				11-27-53[c]	---	581	---	----	---	201	50	60	4	82	4	36	--	26	221[b]	
E-82 2S/4W- 5C1	S. of Colton; 782 feet S. of Barton Rd., 679 feet W. of Michigan Ave. Owner: Gage Canal Co., De Berry well. Use: Irrigation. Casing: 20 inches. Perforated 152-183; 197-209; 218-256.	970	266	Oct., 1926[a]	---	---	---	----	---	231	37	53	--	54	17	45	--	32	205[b]	
				8-15-28[a]	---	---	---	----	---	260	35	41	--	55	19	40	--	29	216[b]	
				Sept., 1930[a]	---	---	---	----	---	290	64	60	--	75	20	55	--	31	270[b]	
				9-12-32[a]	---	685	---	0.18	---	277	44	51	10	74	14	52	--	31	243[b]	
				10- 6-37	---	581	---	0.20	---	240	27	69	16	62	15	48	--	33	217[b]	
				8-16-39	---	570	---	0.00	---	210	22	66	11	60	12	40	--	31	199[b]	
				6-24-49[c]	---	634	---	----	---	250	37	73	--	73	7	56	--	37	211[b]	
				7- 2-52[c]	---	671	---	----	---	262	39	83	--	73	14	53	--	32	240[b]	
				5-25-53	8.0	690	---	0.11	---	269	43	76	18	74	18	57	--	32	259[b]	
E-87b 2S/4W-24R1	S. of Colton; 2,400 feet S. of N St., 1,350 feet W. of Mt. Vernon Ave. Owner: Riverside Water Co., Flume No. 3 well. Use: Irrigation. Casing: 20 inches. Perforated 100-248; 290-354.	919	530	8- 1-30[a]	---	---	---	----	---	---	21	--	--	---	--	--	--	--	---	
				11-27-53[c]	---	904	---	----	---	198	115	99	8	109	5	62	--	32	293[b]	
E-87c 2S/4W-24R3	S. of Colton; 2,950 feet S. of N St., 1,635 feet W. of Mt. Vernon Ave. Owner: Riverside Water Co., Flume No. 4 well. Use: Irrigation. Casing: 20 inches. Perforated 100-192; 218-262; 286-322; 334-358.	920	362	11-27-53[c]	---	388	---	----	---	162	23	6	4	43	3	29	--	36	112[b]	
E-192d 2S/5W-24M1	Riverside; 100 feet NW. of Brockton Ave., 420 feet SW. of 14th St. Owner: Riverside Laundry. Use: Laundry. Casing: 14 inches.	795	246	5-11-32[a]	---	352	---	0.03	---	177	9	16	2	46	6	22	--	25	140[b]	
				10-19-37	---	307	---	0.08	---	192	14	5	2	50	5	21	--	24	146[b]	
				11- 4-46	---	354	---	0.00	---	192	11	23	1	57	8	20	--	20	175[b]	
				6- 5-47	---	373	---	0.10	---	180	24	27	4	44	7	32	--	33	139[b]	
				12-16-47	---	331	---	0.30	---	165	19	28	Tr.	35	5	28	--	36	108[b]	
				5-22-53	8.2	400	---	0.16	---	171	21	28	6	34	6	45	--	47	110[b]	
E-196d 2S/5W-24C1	Riverside; 450 feet NE. of First St., 230 feet NW. of La Cadena Dr. Owner: Riverside Water Co., First St. well. Use: Irrigation. Casing: 24 inches. Perforated 62-74; 95-228.	860	270	8-24-29[a]	---	---	---	----	---	270	110	13	--	101	18	18	--	11	326[b]	
				July, 1930[a]	---	---	---	----	---	---	39	--	--	---	--	--	--	--	---	
				Feb., 1931[a]	---	---	---	----	---	275	47	62	--	79	21	35	--	--	284[b]	
				11-27-53[c]	---	846	---	----	---	308	82	65	13	119	7	55	--	27	326[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						RIVERSIDE BASIN - (continued)														
E-197 2S/5W-23Q1	Riverside; 50 feet SW. of 11th St., 150 feet NW. of Vine St. Owner: Riverside Water Co., 11th St. well. Use: Irrigation. Casing: 20 inches. Perforated 82-162; 182-190; 204-234; 260-270.	865	440	Aug., 1927[a]	---	-----	---	----	---	272	117	88	---	98	22	67	--	30	335[b]	
				July, 1929[a]	---	-----	---	----	---	275	117	45	---	103	22	44	--	21	348[b]	
				11-27-53[c]	---	1,083	---	----	---	250	181	70	18	154	8	59	--	24	418[b]	
E-197a 2S/5W-26F1	SE. of Riverside; 60 feet S. of Terracina Ave., 100 feet W. of Olivewood Ave. Owner: Gage Canal Co., Olivewood well. Use: Irrigation. Casing: 20 inches. Perforated 70-352.	815	398	5-20-25[a]	---	-----	---	----	---	201	182	60	---	94	22	81	--	35	325[b]	
				9-12-32[a]	---	983	---	0.14	---	223	160	28	13	94	21	68	--	32	321[b]	
				6- 6-47	7.5	1,010	---	0.20	---	241	165	35	22	107	24	62	--	27	366[b]	
				6-24-49[c]	---	936	---	----	---	244	159	42	---	114	25	36	--	17	388[b]	
				7- 2-52[c]	---	972	---	----	---	229	156	60	---	94	20	70	--	32	317[b]	
				5-22-53	8.2	380	---	0.20	---	153	21	24	4	24	6	53	--	57	85[b]	
E-197b 2S/5W-23R1	Riverside; 300 feet S. of 10th St., 30 feet E. of Riverside Water Co. canal. Owner: Riverside Water Co., Fill well. Use: Irrigation. Casing: 24 inches. Perforated 74-83; 92-118; 130-142; 165-210; 222-252.	880	358	2- 1-30[a]	---	-----	---	----	---	244	142	33	---	60	22	90	--	45	240[b]	
				11-27-53[c]	---	1,072	---	----	---	275	160	69	18	142	9	66	--	27	392[b]	
E-201 2S/5W-13R1	Riverside; 680 feet W. of Chicago Ave., 55 feet N. of Indianapolis Ave. Owner: J.R. Kelly. Use: Irrigation.	895	113	July, 1927[a]	---	-----	---	----	---	260	130	72	---	80	32	69	--	31	332[b]	
				June, 1932[a]	---	-----	---	----	---	232	200	52	---	100	25	103	--	39	353[b]	
				7-31-47	---	1,064	---	0.00	---	267	154	48	44	101	26	77	--	32	359[b]	
E-201d 2S/4W-18M1	Highgrove; 0.26 mile W. of Iowa Ave., 30 feet N. of Marlborough St. Owner: J.L. Hunter, Marlborough St. well. Use: Irrigation. Casing: 12 inches. Perforated 93-100; 109-137.	908	139	7-30-51[c]	---	1,169	---	----	---	232	209	68	---	127	35	53	--	20	535[b]	CO_3 = 14 ppm.
E-201j 2S/5W-24B1	N. of Riverside; 330 feet N. of Massachusetts Ave., 1,000 feet E. of Kansas St. Owner: Revere Copper and Brass Co. Use: Domestic and industrial. Casing: 12 inches.	902	---	10-28-48[c]	---	1,142	---	----	---	238	181	55	9	119	37	43	--	17	450[b]	CO_3 = 12 ppm.
E-201k 2S/4W-18C1	N. of Riverside; 275 feet W. of Iowa Ave., 90 feet N. of Columbia St. Owner: J.L. Hunter, Columbia St. well. Use: Irrigation.	915	---	4-23-52[c]	---	1,238	---	----	---	259	217	51	---	123	28	67	--	26	423[b]	
E-201L 2S/4W-19E1	Riverside; 350 feet S. of Massachusetts Ave., 350 feet E. of Chicago Ave. Owner: I.C. Bagwell. Use: Irrigation. Casing: 10 inches.	936	185	11- 1-51[c]	---	1,051	---	----	---	323	115	95	---	134	20	49	--	20	417[b]	
E-202e 2S/4W-19M1	Riverside; 585 feet E. of Chicago Ave., 490 feet N. of 8th St. Owner: Braman-Dickerson Co. Use: Domestic. Casing: 8 inches.	961	225	3-26-47[d]	7.8	1,600	---	0.08	0.2	232	314	48	105	144	44	100	--	29	541[b]	
E-203a 2S/4W-31K1	Riverside; 0.25 mile S. of South St., on line of Chicago Ave. produced, 200 feet S. of island in middle of lake. Owner: Ross Jordan. Use: To feed lake. Casing: 14 inches.	---	135	10-27-53[c]	---	1,494	---	----	---	311	231	193	---	136	61	86	--	24	591[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Name and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 21°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							RIVERSIDE BASIN - (continued)													
[illegible]	E. of Riverside; 325 feet E. of Canyon Crest Rd., 225 feet S. of Linden St. Owner: Lemmon Investment Co. Use: Irrigation. Casing: 1[illegible] inches.	1,044	325	2- 2-18[a] 11-15-40[d]	--- 7.9	----- 896	--- ---	---- 0.06	--- ---	112 140	74 163	68 17	13 55	35 66	14 22	73 72	-- --	52 38	145[b] 255[b]	
[illegible]	E. of Riverside; 25 feet N. of Linden Ave., 0.32 mile E. of Iowa Ave. Owner: Jurupa Heights Water Co. Use: Irrigation. Casing: 13 inches.	1,025	490	2- 2-18[a] 5-11-32[a] 10-13-37 8-1[illegible] 10-31-46 6- 5-47 5-22-53	--- --- --- --- --- --- 7.7	----- 459 502 510 526 595 740	--- --- --- --- --- --- ---	---- 0.10 0.12 ---- 0.40 0.20 0.09	--- --- --- --- --- --- ---	106 125 146 116 113 125 128	55 60 62 72 94 103 142	-- 19 23 20 20 21 22	-- 8 12 12 9 16 29	26 23 35 27 37 40 48	17 10 10 11 13 15 19	102 56 53 57 64 57 71	-- -- -- -- -- -- --	63 56 48 52 49 44 44	135[b] 99[b] 129[b] 113[b] 146[b] 162[b] 198[b]	
[illegible]	NE. of Riverside; 600 feet S. of Indianapolis Ave., 75 feet E. of Martin Ave. produced. Owner: James M. Keith. Use: Domestic. Casing: 8 inches.	[illegible]	185	12-10-[illegible][c]	---	819	---	Tr.	0.4	305	43	83	31	76	30	49	--	25	313[b]	
[illegible]	E. of Riverside; 0.14 mile S. of Pennsylvania Ave., 50 feet E. of Canyon Crest Rd. Owner: F.A. Tetley Jr. Use: Domestic and irrigation. Casing: [illegible] inches. Perforated 74-90.	1,055	159	Nov., 1929[a] 5-13-32[a] 7-22-47 5-22-53	--- --- --- 7.7	----- 706 827 870	--- --- --- ---	---- 0.16 0.40 0.15	--- --- --- ---	210 217 311 330	110 57 30 35	49 67 75 67	-- 18 97 76	62 49 43 54	25 28 22 32	55 59 118 95	-- -- -- --	32 35 56 44	258[b] 238[b] 198[b] 267[b]	
[illegible]	E. of Riverside; 250 feet S. of Linden St., 500 feet W. of Canyon Crest Rd. Owner: [illegible] Coffee, Linden St. well. Use: Domestic and irrigation. Casing: 12 inches. Perforated 207-209; 275-276; 290-293; 314-317; [illegible]; 340-342; 347-349; 354-357; [illegible]; 380-383.	1,[illegible]	416	2-13-[illegible][c]	---	954	---	----	---	113	217	67	--	74	25	82	--	38	288[b]	
[illegible]	SE. of Riverside; NW. of March Air Force Base; 1,000 feet N. of U.S. Highway No. 395, 20 feet N. of Dracea Ave. Owner: Box Springs Mutual Water Co. Use: Domestic and irrigation. Casing: 10 inches.	1,530	189	5-12-32[a] 7-22-47 5-22-53	--- --- 7.4	598 633 620	--- --- ---	0.07 1.00 0.07	--- --- ---	58 59 73	115 116 117	17 21 17	23 49 39	34 37 36	16 18 18	53 50 56	-- -- --	43 40 43	151[b] 166[b] 164[b]	
							SANTA ANA NARROWS BASIN													
[illegible]	N. of Corona; 100 feet SW. of Prado Rd., between Chino Creek and Santa Ana River. Owner: Santa Ana River Development Co. S.B.Co.F.C.D. sample point No. 563.	478	---	10-13-50[e]	7.4	993	636	0.10	0.3	298	77	176	5	97	36	56	--	24	390	
[illegible]	N. of Corona; 250 feet S. of State Highway No. 71, 200 feet W. of A.T.& S.F.R.R. Owner: Fred Rotiller. Use: Stock. Windmill.	461	58	2- 9-51 2-13-52	8.2 7.0	1,403 1,260	954 1,032	0.18 0.24	--- 0.4	322 355	76 81	335 385	4 9	162 184	40 47	76 78	-- 2	-- --	569[b] 653[b]	
[illegible]	W. of Corona; 200 feet W. of Prado Station, 550 feet N. of Prado Station Rd. Owner: C.E. Scharer. Use: Domestic and irrigation. Casing: 22 inches.	456	---	2- 9-51 2-13-52 9-18-53	7.7 --- 7.4	1,239 1,161 1,287	914 --- 957	0.21 ---- 0.15	--- --- 0.6	376 375 354	89 88 74	278 --- 356	6 -- 6	156 --- 165	36 -- 38	87 -- 95	-- -- 3	-- -- 27	538[b] --- 569[b]	
[illegible]	W. of Corona; 230 feet W. of Prado Station, 550 feet N. of Prado Station Rd. Owner: A.T.&S.F.R.R. Use: Domestic. Casing: 10 inches. Perforated [illegible]-78.	458	80	2- 9-51 9-16-53[f]	7.5 7.6	1,366 1,453	961 ---	0.04 ----	--- ---	386 354	91 79	322 ---	2 --	164 ---	40 --	92 ---	-- --	-- --	574[b] ---	
[illegible]	W. of Corona; 700 feet NW. of A.T.& S.F.R.R., 600 feet W. of Prado Station Rd. at A.T.&S.F.R.R. crossing. Owner: M.P. Skully. Use: Domestic and irrigation.	---	87	2- 9-51 9-16-53[f]	7.7 7.8	1,366 1,475	979 ---	0.10 ----	--- ---	305 356	114 107	324 ---	2 --	145 ---	40 --	107 ---	-- --	-- --	527[b] ---	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							SAN TIMOTEO BASIN													
E-104 1S/4W-36J1	Bryn Mawr; 20 feet W. of Mountain View Ave. produced, 0.62 mile S. of Barton Ave. Owner: C.T. Norwood. Use: Irrigation. Casing: 14 inches. Perforated 200-633; 677-693; 721-761.	1,312	795	8- 5-32[a]	---	575	---	0.07	---	165	67	42	2	17	6	100	--	77	67[b]	
				7-23-47	---	274	---	0.00	---	169	9	0	0	32	7	18	--	27	109[b]	
E-112g 2S/3W- 4N1	SW. of Redlands; 2,400 feet SW. of San Timoteo Canyon Rd., 800 feet SE. of S.P.R.R. crossing, 760 feet E. and 330 feet N. of SW. corner Sec. 4, T. 2 S., R. 4 W., S.B.B.&M. Owner: H.L. Hubbard. Use: Irrigation. Casing: 14 inches. S.B.Co.F.C.D. sample point No. 401.	1,430	500	8- 5-32[a]	---	814	---	0.04	---	403	50	38	2	48	27	102	--	49	231[b]	
				6- 9-49[e]	7.4	831	490	0.09	0.4	393	61	43	9	54	28	101	--	47	250	
E-112h 2S/3W- 4E1	SW. of Redlands; 1,000 feet NW. of S.P.R.R. Redlands Depot in San Timoteo Canyon, 75 feet SW. of S.P.R.R., 800 feet W. of Redlands city limits. Owner: Estate of C.H. Clocke. Use: Irrigation. Casing: 14 inches. Perforated 125-475; 522-549.	1,295	568	8- 5-32[a]	---	730	---	0.04	---	327	41	53	7	49	22	84	--	46	213[b]	
				7-23-47	---	725	---	0.00	---	312	43	54	13	46	20	85	--	48	197[b]	
				10- 1-53	8.0	758	423	0.02	0.8	312	45	56	17	47	21	88	3	48	204[b]	
E-120j 1S/3W-35G7	Redlands; 800 feet SE. of Crescent Ave., 300 feet NE. of U.S. Highway No. 70/99. Owner: City of Redlands, well No. 11. Use: Municipal. Casing: 18 inches. Perforated 101-131; 152-174; 190-194; 291-298; 370-390; 498-514. S.B.Co.F.C.D. sample point No. 618.	1,565	687	8- 4-32[a]	---	402	---	0.05	---	180	20	24	9	34	10	41	--	43	126[b]	
				10-18-37	---	362	---	0.06	---	175	13	25	8	34	9	32	--	37	122[b]	
				12-15-47	---	---	---	0.20	---	187	18	23	16	34	8	42	--	44	118[b]	
				4-24-51[e]	7.6	464	278	0.00	0.3	200	17	19	30	41	13	36	--	34	155	
				8- 1-52	7.7	430	---	0.04	---	201	18	26	18	37	10	54	--	47	134[b]	
				10- 1-53	8.0	441	270	0.00	0.5	200	14	36	25	44	11	40	2	36	155[b]	
E-120k 1S/3W-35H2	Redlands; 1,000 feet SE. of Crescent Ave., 50 feet NE. of U.S. Highway No. 70/99. Owner: City of Redlands, well No. 12. Use: Municipal. Casing: 20 inches. Perforated 98-124; 263-296; 302-330. S.B.Co.F.C.D. sample point No. 619.	1,568	347	8- 4-32[a]	---	441	---	0.01	---	195	20	26	13	41	14	34	--	32	160[b]	
				12-15-47	---	455	---	0.20	---	217	18	33	40	48	16	39	--	31	186[b]	
				4-24-51[e]	7.6	615	342	0.00	0.3	220	18	16	43	54	17	33	--	26	204	
				8- 6-52	7.4	530	---	0.09	---	220	18	36	44	49	17	37	--	30	192[b]	
				6-17-53	8.2	510	---	0.02	---	201	14	41	32	50	19	29	--	24	203[b]	
				10- 1-53	7.8	565	354	0.00	0.5	222	15	49	50	58	16	40	2	29	211[b]	
E-120m 1S/3W-35H3	Redlands; 0.3 mile SE. of Crescent Ave., 50 feet NE. of U.S. Highway No. 70/99. Owner: City of Redlands, well No. 16. Use: Municipal. Casing: 20 inches. Perforated 170-206; 238-280; 320-326; 346-352. S.B.Co.F.C.D. sample point No. 620.	1,572	414	4-15-31[a]	---	---	---	----	---	195	18	27	--	--	--	--	--	--	---	
				4-24-51[e]	7.6	510	260	0.00	0.4	183	20	13	34	39	15	28	--	28	158	
E-123e 1S/2W-30C1	S. of Mentone; 50 feet S. of Colton Ave., 30 feet E. of Opal Ave. (F St.) Owner: C.T. Paine. Use: Irrigation. Casing: 18 inches. Perforated 134-248. S.B.Co.F.C.D. sample point No. 543.	1,649	285	8- 7-52[e]	8.1	370	235	0.08	0.6	163	9	24	24	52	13	10	2	10	184	
E-127g 1S/2W-30B2	S. of Mentone; 0.23 mile S. of Colton Ave., 250 feet W. of King St. Owner: C.T. Paine. Use: Irrigation. Perforated 120-152; 157-178; 182-212; 218-228. S.B.Co.F.C.D. sample point No. 614.	1,705	250	8- 5-32[a]	---	402	---	0.02	---	198	13	23	11	46	17	20	--	19	185[b]	
				6-13-40	---	520	---	----	---	238	22	34	34	62	17	28	--	21	225[b]	
				6-16-47	---	572	---	0.30	---	248	14	55	89	71	22	31	--	20	267[b]	
				4-24-51[e]	7.7	586	378	0.00	0.4	220	12	31	61	60	19	26	--	20	228	
				8-27-52	8.2	650	---	0.06	---	232	11	58	56	63	19	33	--	24	236[b]	
				6-17-53	8.1	660	---	0.02	---	232	11	59	71	70	23	34	--	22	270[b]	
				10- 1-53	7.9	573	379	0.00	0.5	217	10	59	69	65	20	31	2	22	245[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (10×10^6 at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						SAN TIMOTEO BASIN - (continued)														
E-129 1S/1W-30K3	S. of Mentone; 1,300 feet N. of Citrus Ave., 25 feet W. of King St. Owner: King St. Mutual Well Co., King St. well. Use: Irrigation. Casing: 18 inches. Perforated 124-228. S.B.Co. F.C.D. sample point No. 544.	1,710	246	10- 9-50[e] 11- 2-53[f]	7.7 7.8	430 542	268 449	0.05 0.10	0.3 0.5	185 215	11 13	27 46	33 46	42 65	16 16	17 24	-- 2	-- --	169 228[b]	
E-130 2S/2W- 8L1	SE. of Redlands; 500 feet N. of Live Oak Canyon Rd., 1.27 miles SW. of U.S. Highway No. 70/99, 30 feet W. of N-S ¼ section line of Sec. 8, T. 2 S., R. 2 W., S.B.B.&M. Owner: Lower Yucaipa Water Co. Use: Irrigation. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 409.	1,885	210	7-21-[illegible][a] 10-18-37 [illegible] 8-22-49[e] 7-14-[illegible]	--- --- --- 7.8 8.1	544 558 481 578 500	--- --- --- 344 ---	0.06 0.04 0.00 ---- 0.01	--- --- --- 0.4 ---	290 303 300 315 256	21 26 22 23 18	20 30 21 27 17	2 4 6 8 4	53 55 54 56 42	17 17 17 16 11	46 47 37 46 56	-- -- -- -- --	33 33 28 32 45	202[b] 207[b] 205[b] 208 150[b]	
E-130f 2S/2W- 8L2	SE. of Redlands; 800 feet N. of Live Oak Canyon Rd., 1.27 miles SW. of U.S. Highway No. 70/99. Owner: Lower Yucaipa Water Co., North well. Use: Irrigation. Casing: 16 inches. Perforated 140-442. S.B.Co.F.C.D. sample point No. 408.	1,880	442	8-22-49[e]	8.6	481	286	----	0.2	232	23	26	13	33	7	69	—	58	111	CO_3 = 7 ppm.
E-223 2S/3W-[illegible]M1	SE. of Redlands; 0.76 mile SE. of Redlands Blvd., 200 feet NE. of San Timoteo Canyon Rd., 100 feet NE. of S.P.R.R. Owner: J.H. Stewart. Use: Irrigation. Casing: 20 inches. Perforated 75-111; 306-348; 374-396; 402-416; 462-479. S.B.Co.F.C.D. sample point No. 407.	1,[illegible]2	540	7-21-[illegible][a] 10-18-37 8- 9-49[e] 7- 3-53	--- --- 7.9 7.8	1,[illegible] 1,140 410 400	--- --- 246 ---	0.11 0.20 0.07 0.01	--- --- 0.2 ---	497 481 222 211	87 88 19 14	81 95 12 7	0 0 9 3	62 70 43 30	23 24 15 14	156 154 30 39	-- -- -- --	57 55 28 39	250[b] 274[b] 167 133[b]	
E-223d 2S/3W-24A1	SE. of Redlands; 0.76 mile SE. of Redlands Blvd., 500 feet NE. of San Timoteo Canyon Rd., 300 feet NE. of E-223. Owner: J.H. Stewart. Use: Irrigation. Casing: 12 inches. S.B. Co.F.C.D. sample point No. 402.	1,680	175	8- 9-49[e] 6-17-53	7.3 8.1	916 960	560 ---	0.09 0.07	0.6 ---	444 451	74 78	53 48	0 1	65 60	24 27	133 133	-- --	52 53	262 261[b]	
E-287 2S/2W-28J1	S. of Redlands; 350 feet S. and 550 feet W. of E¼ corner, Sec. 28, T. 2 S., R. 2 W., S.B.B.&M. Owner: C. Singleton. Use: Domestic. Casing: 12 inches. S.B.Co.F.C.D. sample point No. 403.	[illegible],072	110	8- 9-49[e] 7- 3-53	7.9 8.4	912 970	546 ---	0.07 0.16	0.7 ---	381 390	90 89	16 15	27 34	15 11	4 4	206 218	-- --	90 92	53 44[b]	
E-230b 2S/2W-35D1	W. of Beaumont; in San Timoteo Canyon, 1.45 miles SE. of El Casco Bridge, 125 feet NE. of San Timoteo Canyon Rd. Owner: J.S. Haskell. Use: Domestic and stock. Casing: 10 inches.	2,113	600	7-21-32[a] 7- 3-53	--- 7.9	391 430	--- ---	0.08 0.01	--- ---	201 220	16 20	12 5	4 6	30 36	8 10	50 44	-- --	50 42	108[b] 131[b]	
E-2301 2S/2W-35D2	W. of Beaumont; in San Timoteo Canyon, 1.35 miles SE. of El Casco Bridge, 525 feet NE. of San Timoteo Canyon Rd., 400 feet NE. of E-230b. Owner: Singleton and Haskell. Casing: 2 inches. S.B.Co.F.C.D. sample point No. 404.	2,116	---	8- 9-49[e]	7.5	362	225	0.04	0.7	190	18	16	0	36	8	40	--	42	122	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity ($EC \times 10^6$ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							TEMESCAL BASIN													
E-151j	NW. of Corona; 200 feet SW. of Rincon St. produced, 50 feet NW. of Corydon St. produced. Owner: W.B. Covington. Use: Domestic.	526	429	7-28-32[a] 1- 3-33[a] 10-11-37	--- --- ---	1,550 1,280 1,470	--- --- ---	0.46 0.47 0.48	--- --- ---	357 296 303	277 213 260	77 65 85	8 9 39	133 104 120	34 27 30	144 119 138	-- -- --	40 41 42	472[b] 371[b] 423[b]	
E-151m 3S/7W-22A1	NW. of Corona; 0.2 mile NW. of Pulaski St., 750 feet NE. of Rincon St. Owner: Leased by Meadows Bros. Use: Irrigation. Casing: 14 inches. Cal Engineers "I" well.	535	90	9- 8-54[k]	7.3	-----	---	0.30	---	---	400	59	1	190	55	173	10	35	701[b]	
E-153l 3S/7W-24C1	N. of Corona; 25 feet S. of 1st St., 0.15 mile E. of Pacific Ave. Owner: T.W. Mitchell. Use: Domestic and irrigation.	584	58	11-20-31[a] 8- 8-47	--- ---	1,080 1,668	--- ---	---- 0.30	--- ---	119 232	231 380	45 64	-- 21	49 120	32 55	98 133	-- --	46 36	254[b] 526[b]	
E-156c 3S/6W- 5P1	E. of Norco; 0.28 mile S. of 6th St., 300 feet E. of Hillside Ave. Owner: A. Henwood. Use: Irrigation and domestic.	680	---	11-19-31[a] 1-21-47	--- ---	960 1,267	--- ---	---- 0.10	--- ---	168 296	139 235	38 80	-- 11	45 89	18 45	85 141	-- --	50 43	186[b] 407[b]	
E-159b 3S/6W-18Q1	N. of Corona; 250 feet S. of 1st St., 100 feet W. of Temescal St. Owner: W.C. Goodhue. Use: Domestic and irrigation. Casing: 5 inches, in 35-foot pit.	652	61	11-19-31[a] 1-21-47	--- ---	850 910	--- ---	---- 0.10	--- ---	174 267	121 142	40 55	-- 5	47 69	11 27	[illegible] 100	-- --	54 43	163[b] 283[b]	
E-272 3S/7W-22A2	NE. of Corona; 0.25 mile NW. of Smith Ave., 500 feet SW. of Rincon St. Owner: William Fisher. Use: Irrigation. Casing: 12 inches. Cal Engineers "G" well.	536	48	12-19-31[a] 8- 8-47 9- 8-54[k]	--- --- 7.3	1,710 1,317 -----	--- --- ---	---- 0.70 0.80	--- --- ---	333 473 ---	267 161 214	106 105 110	-- 35 4	126 123 150	40 31 23	127 145 137	-- -- 11	34 42 38	492[b] 435[b] 470[b]	
E-273a 3S/7W-27H1	W. of Corona; 800 feet NW. of Smith Ave., 0.3 mile N. of 6th St. Owner: William Vander Pol. Use: Irrigation. Casing: 16 inches.	662	217	11-25-31[a] 8- 8-47 12- 3-53	--- 8.0 7.3	840 430 917	--- --- 588	---- 0.10 0.04	--- --- 0.3	198 148 242	66 12 82	124 80 136	-- 3 39	79 48 107	20 9 24	48 33 58	-- -- 2	27 31 --	280[b] 157[b] 366[b]	
E-274 3S/7W-23K2	NW. of Corona; 0.45 mile SE. of Smith Ave., 435 feet SW. of Rincon St. Owner: Jesse Meadows Cross Bar Ranch. Use: Domestic and irrigation. Casing: 8 inches.	570	79	11-12-46[d]	7.5	1,060	---	0.26	0.4	300	98	145	17	89	21	110	--	44	309[b]	
E-274c 3S/7W-23N1	NW. of Corona; 100 feet SW. of Railroad St., 700 feet SE. of Smith Ave. Owner: LeRoy Bowman. Use: Domestic. Casing: 10 inches.	592	180	10-29-32[a] 8- 8-47 12- 3-53[f]	--- --- 8.0	887 901 1,425	--- --- 919	0.19 0.10 0.00	--- --- 0.4	229 258 364	89 92 167	107 114 165	13 32 61	77 89 146	22 23 36	78 77 104	-- -- 4	38 35 --	283[b] 317[b] 513[b]	
E-274f 3S/7W-23M2	NW. of Corona; 900 feet SW. of Rincon St., 85 feet SE. of Smith Ave. Owner: Mrs. Otis. Use: Irrigation.	556	---	6-12-40	---	1,240	---	----	---	350	146	123	20	96	24	139	--	47	339[b]	
E-275e 3S/7W-26C1	NW. of Corona; 100 feet SE. of Sherman Ave., 1,055 feet SW. of Railroad St. Owner: A.F. Call Estate, Pump 67. Use: Irrigation. Casing: 12 inches, in bottom of 100-foot pit.	678	---	Sept., 1918[a] 8-25-25[a] 11-28-31[a] 8- 8-47	--- --- --- ---	----- ----- 1,050 878	--- --- --- ---	---- ---- ---- 0.10	--- --- --- ---	250 247 238 246	141 111 114 87	131 114 117 120	10 -- -- 23	87 96 88 83	26 24 20 21	100 66 80 79	-- -- -- --	40 29 37 37	324[b] 339[b] 302[b] 294[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						TEMESCAL BASIN - (continued)														
E-275g 3S/7W-26G1	NW. of Corona; 0.4 mile NE. of 6th St., 250 feet NW. of Lincoln Ave. Owner: Corona Foothill Mutual Lemon Co., Lincoln No. 2 well. Use: Irrigation. Casing: 18 inches.	640	200	10-20-53[c]	---	874	---	----	---	244	103	120	5	123	5	65	--	30	328[b]	CO_3 = Trace.
E-276 3S/7W-26K1	Corona; 50 feet NW. of Lincoln Ave., 400 feet NE. of 6th St. Owner: Corona Foothill Mutual Lemon Co. Use: Irrigation. Casing: 16 inches. Perforated 150-156; 162-201.	678	204	9-13-31[a]	---	920	---	----	---	194	103	122	--	86	20	61	--	31	297[b]	
				11-28-31[a]	---	960	---	----	---	189	124	87	--	98	26	31	--	16	352[b]	
				8- 8-47	7.5	1,668	---	0.10	---	33	309	422	0	222	42	82	--	20	728[b]	
E-276c 3S/7W-35L1	SW. of Corona; 0.29 mile S. of Olive St., 50 feet W. of Lincoln Ave. Owner: Jamison Estate. Use: Irrigation.	797	376	11-28-31[a]	---	940	---	----	---	259	85	118	--	97	32	37	--	18	374[b]	
				8- 8-47	---	775	---	0.10	---	232	67	110	30	90	23	48	--	25	320[b]	
				12- 3-53	7.6	833	528	0.10	0.2	203	83	110	38	95	20	52	2	--	320[b]	
E-277a 4S/7W- 3F1	SW. of Corona; 0.45 mile S. of Ontario Ave., 50 feet E. of Mangular Ave. Owner: First Trust and Savings Bank of Pasadena. Use: Irrigation.	950	400	11-19-31[a]	---	-----	---	----	---	296	28	301	--	132	55	17	--	7	556[b]	
				10-11-37	---	631	---	0.28	---	228	50	58	6	61	14	52	--	35	210[b]	
				8-21-39	---	1,150	---	----	---	310	26	337	5	124	56	48	--	16	540[b]	
				10-22-46	---	710	---	0.20	---	302	27	317	2	120	58	46	--	16	538[b]	
				12- 3-53	8.0	1,102	815	0.10	0.3	298	36	323	19	121	57	52	4	--	537[b]	
E-277f 4S/7W- 3L1	W. of Corona; 3,500 feet S. of Ontario Ave., 50 feet E. of Mangular Ave. Owner: Jamison Estate. Use: Irrigation. Casing: 14 inches.	985	350	6-22-51[d]	7.6	1,090	---	0.13	---	311	33	297	27	111	59	50	--	17	520[b]	
E-279c 3S/7W-23J1	NW. of Corona; 300 feet SW. of Rincon St., 200 feet SE. of Goodwin St. produced. Owner: Mr. Harris. Use: Irrigation.	555	60	9-20-31[a]	---	1,770	---	----	---	339	277	116	--	144	27	145	--	40	471[b]	
				6-12-40	---	1,400	---	----	---	488	181	106	3	122	28	149	--	44	420[b]	
E-279e 3S/7W-23K1	NW. of Corona; 600 feet SW. of Rincon St., 950 feet NW. of Goodwin St. Owner: Meadows Brothers Cross Bar Ranch. Use: Domestic. Casing: 8 inches. Jal Engineers "E" well.	571	75	9- 8-54[k]	6.8	-----	---	0.70	---	---	172	100	3	130	26	103	6	34	432[b]	
E-281a 3S/7W-24Q1	N. of Corona; 0.13 mile NW. of Hamner Ave., 150 feet SW. of River Rd. Owner: Carlton. Use: Domestic. Casing: 7 inches.	584	80	9-20-31[a]	---	2,060	---	----	---	433	327	127	--	177	47	142	--	33	636[b]	
				10-11-37	---	1,580	---	0.36	---	435	236	134	34	146	46	138	--	35	554[b]	
				8-17-39	---	1,430	---	----	---	355	199	122	19	124	30	130	--	40	433[b]	
				10-21-46	---	1,510	---	0.10	---	455	223	129	1	133	41	161	--	41	501[b]	
				9-21-51	8.0	900	---	0.11	---	250	99	106	36	88	2	105	--	50	228[b]	
				11- 4-53[f]	7.9	820	536	0.50	0.4	201	46	169	19	91	20	50	2	--	310[b]	
E-281k 3S/7W-24E1	N. of Corona; 0.24 mile SE. of Pacific St., 175 feet NE. of River Rd. Owner: Ernest Weick. Use: Domestic and irrigation. Casing: 7 inches.	565	70	11-24-31[a]	---	800	---	----	---	150	125	43	--	53	13	72	--	46	186[b]	
				8- 8-47	---	2,740	---	0.50	---	466	624	145	23	200	72	294	--	45	796[b]	
				11- 4-53[f]	8.2	1,285	826	0.25	0.9	215	246	59	25	148	4	103	4	--	386[b]	CO_3 = Trace.
E-281u 3S/7W-24F1	N. of Corona; 1,400 feet NW. of Cota St., 400 feet NE. of River Rd. Owner: Herbert C. Price. Use: Domestic. Casing: 8 inches. Perforated 93-105.	590	122	12- 3-53[f]	8.0	985	636	0.35	0.5	210	190	57	18	81	21	98	3	--	289[b]	
E-282c 3S/7W-25M1	Corona; 175 feet W. of Merrill St., 128 feet N. of Third St. Owner: Corona Foothill Mutual Lemon Co., Third St. well. Use: Domestic and irrigation. Casing: 18 inches. Gravel 90-146.	634	167	11-19-31[a]	---	1,110	---	----	---	253	110	143	--	93	25	80	--	34	338[b]	
				6-12-40	---	950	---	----	---	217	105	157	18	98	16	92	--	38	311[b]	
				10-21-46	---	1,070	---	0.30	---	235	112	92	8	91	25	72	--	32	330[b]	
				1-21-47	---	925	---	0.00	---	238	122	107	18	97	24	79	--	33	341[b]	
				11- 6-47	---	851	---	0.20	---	218	101	110	27	88	21	79	--	36	306[b]	
				9-21-51	---	1,080	---	0.14	---	281	146	96	30	105	26	98	--	37	369[b]	
				10-20-53[c]	---	889	---	----	---	223	108	124	3	73	32	68	--	32	314[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10^6 at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
						TEMESCAL BASIN - (continued)														
E-283 3S/7W-25N1	Corona; 165 feet E. of Vicentia Ave., 50 feet S. of 5th St. produced. Owner: Corona City Water Co., Vicentia well. Use: Municipal. Casing: 20 inches. Perforated 144-234.	665	250	6- 8-48[c]	---	878	---	0.28	0.9	238	76	137	--	89	5	91	--	45	243[b]	
E-286a 3S/7W-24R2	N. of Corona; 0.47 mile N. of A.T.& S.F.R.R., 30 feet NE. of angle in Joy St. Owner: Evans. Use: Irrigation. Cal Engineers "C" well.	593	80	11-19-31[a]	---	1,780	---	----	---	326	284	117	--	140	35	134	--	37	494[b]	
				9- 8-54[k]	7.3	-----	---	1.00	---	---	250	119	2	190	54	148	5	32	697[b]	
E-286c 3S/6W-30F1	NE. of Corona; 2,900 feet E. of Joy St., 1,150 feet N. of A.T.&S.F.R.R. Owner: C.C. Parkridge. Use: Domestic and irrigation.	609	78	12-21-31[a]	---	1,720	---	----	---	250	305	129	--	87	44	170	--	48	398[b]	
				7-30-47	---	1,608	---	0.30	---	383	246	134	22	120	37	166	--	44	452[b]	
				9-21-51	---	1,170	---	0.23	---	341	188	111	24	94	33	141	--	45	371[b]	
				12- 3-53[f]	7.4	1,252	754	0.20	0.5	293	182	111	26	94	29	122	3	--	354[b]	
E-2861 3S/7W-25H1	Corona; 60 feet N. of Harrison St., 70 feet W. of Joy St. Owner: C.W. Newton. Use: Irrigation and stock. Casing: 12 inches.	598	112	1-20-48[d]	7.5	1,650	---	0.27	---	477	221	151	22	155	39	151	--	37	548[b]	
E-287 3S/6W-30N1	Corona; 600 feet N. of 6th St., 500 feet E. of East Grand Blvd. Owner: City of Corona, Park well. Use: Domestic and irrigation. Casing: 12 inches.	657	150	12-19-31[a]	---	1,070	---	----	---	299	103	121	--	91	22	91	--	38	318[b]	
				6- 2-49[c]	---	1,009	---	0.20	---	299	83	158	--	104	24	77	--	32	359[b]	
E-287a 3S/7W-25J1	Corona; 100 feet E. of Joy St., 50 feet N. of Third St. Owner: Corona City Water Co., Third St. well. Use: Municipal and irrigation. Casing: 16 inches. Perforated 103-203.	643	221	11-19-31[a]	---	1,280	---	----	---	305	153	100	--	104	25	94	--	36	363[b]	
				6-29-48[c]	---	1,058	---	----	---	292	79	248	--	94	11	151	--	54	280[b]	
E-287d 3S/6W-30Q1	E. of Corona; 600 feet N. of 6th St., 0.22 mile E. of Rimpau Ave. Owner: Concrete Mix Co. Use: Industrial. Casing: 8 inches.	620	90	11-23-48[c]	---	693	---	----	---	189	57	105	--	66	5	73	--	46	186[b]	
E-287e 3S/6W-31R1	SE. of Corona; 0.18 mile S. of intersection of Magnolia Ave. and Rimpau Ave., 0.2 mile E. of Rimpau Ave. Owner: Temescal Water Co., Call well. Use: Irrigation. Casing: 16 inches.	727	220	12-18-31[a]	---	1,010	---	----	---	256	82	151	--	96	25	64	--	29	343[b]	
				7-30-37	---	990	---	0.20	---	275	82	159	12	98	24	76	--	33	344[b]	
				10- 6-37	---	1,186	---	0.18	---	339	156	82	38	99	22	123	--	44	338[b]	
				10-22-46	---	1,040	---	0.10	---	323	124	104	17	99	24	96	--	38	346[b]	
				6-16-47	---	1,012	---	0.50	---	348	127	105	85	102	24	126	--	44	354[b]	
				7-30-47	---	990	---	0.20	---	275	82	159	12	98	24	76	--	33	344[b]	
				9-21-51	---	930	---	0.12	---	268	85	150	19	99	25	75	--	32	350[b]	
E-287o 3S/6W-31D2	Corona; 175 feet N. of Commercial St., 248 feet E. of intersection with Pine St. Owner: Corona City Water Co., Commercial St. well. Use: Municipal. Casing: 10 inches. Perforated 103-203.	690	217	8- 2-50[c]	---	-----	240	----	---	186	89	75	--	91	3	53	--	--	240[b]	
E-[illegible]d 3S/[illegible]W-[illegible]Q1	E. of Corona; 130 feet N. of 6th St., 0.62 mile E. of Porphyry Spur of A.T.&S.F.R.R. Owner: W.H. Jamison. Use: Irrigation. Casing: 18 inches. Perforated 55-70; 90-126; 140-166.	651	170	11-19-31[a]	---	1,260	---	----	---	302	153	91	--	96	24	100	--	39	339[b]	
				10- 6-37	---	1,180	---	0.18	---	339	156	82	38	99	22	123	--	44	338[b]	
				10-22-46	---	1,040	---	0.10	---	323	124	104	17	99	24	96	--	38	346[b]	
				6-16-47	---	1,012	---	0.50	---	348	127	105	85	102	24	126	--	44	354[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well number	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
							TEMESCAL BASIN - (continued)													
[illegible] 3S/6W-29N1	E. of Corona; 250 feet S. of 6th St., 400 feet W. of A.T.&S.F.R.R. Owner: Kuster and Waterbury. Use: Irrigation.	634	---	11-1[illegible]-31[a]	---	1,570	---	----	---	339	245	102	--	115	27	152	--	45	398[b]	
				7-20-47	---	1,198	---	0.20	---	372	127	105	37	104	26	116	--	41	367[b]	
[illegible] 4S/6W- 7G1	SE. of Corona; 0.5 mile SE. of Compton Ave., 600 feet NE. of Ontario Ave. Owner: R.H. Verity, Sons and Co. Use: Irrigation.	880	180	12-19-31[a]	---	1,530	---	----	---	302	188	180	--	137	27	113	--	35	453[b]	
				7-30-47	---	1,010	---	0.10	---	262	98	157	18	101	23	81	--	34	347[b]	
				9-20-51	---	920	---	0.07	---	214	131	75	50	99	17	78	--	35	317[b]	
[illegible]	NE. of Corona; 1,420 feet SE. of Magnolia Ave., 650 feet NE. of Johnson St. Owner: Temescal Water Co., Young well. Use: Irrigation. Casing: 16 inches. Perforated 82-107; 140-161, 1[illegible]-17[illegible]; 1[illegible]-20[illegible].	695	218	3-15-31[a]	---	891	---	0.25	---	323	76	79	21	66	27	101	--	44	276[b]	
				10- 6-37	---	770	---	0.24	---	253	91	60	Tr.	43	18	98	--	53	181[b]	
				10-22-46	---	830	---	0.10	---	293	21	92	16	73	24	48	--	27	281[b]	
				6-16-47	---	885	---	0.50	---	321	74	96	50	77	24	100	--	43	291[b]	
				8-16-49[c]	---	1,072	---	----	---	314	76	119	17	80	20	101	--	44	282[b]	
				12- 3-53	7.6	1,024	646	0.16	0.4	346	84	108	46	89	26	105	4	--	329[b]	
[illegible]	E. of Corona; 125 feet NW. of Magnolia Ave., 30 feet SW. of Grant St. Owner: Riverside Valley Home Gardens Tract. Use: Irrigation and domestic. Casing: 8 inches.	667	200	11-19-31[a]	---	1,380	---	----	---	311	181	95	--	110	23	110	--	39	370[b]	
				7-30-47	---	1,299	---	0.20	---	351	145	114	89	109	23	134	--	44	367[b]	
				11- 6-47	---	1,111	---	0.40	---	341	140	114	66	101	23	134	--	46	347[b]	
[illegible]	E. of Corona; 80 feet SW. of Grant St., 0.15 mile SE. of Magnolia Ave. Owner: Glass and Tuthill. Use: Irrigation.	671	200	11-19-31[a]	---	920	---	----	---	329	57	69	--	63	20	83	--	43	240[b]	
				7-30-47	---	1,143	---	0.20	---	373	106	100	44	89	31	108	--	40	350[b]	
							YUCAIPA BASIN													
[illegible]	Yucaipa; 75 feet N. of Yucaipa Blvd., 430 feet E. of 12th St. Owner: South Mountain Water Co., well No. 3. Use: Irrigation. Casing: 20 inches. Perforated 120-510. S.B.Co.F.C.D. sample point No. 410.	2,155	648	7-21-32[a]	---	462	---	0.03	---	244	13	24	8	57	16	25	--	21	208[b]	
				12-13-43	7.9	470	---	0.00	---	248	18	45	13	67	17	31	--	22	237[b]	
				8-22-49[e]	7.8	546	332	----	0.3	246	22	50	15	68	16	24	--	18	234	
				7-13-51	7.8	560	---	0.00	---	171	21	42	16	67	16	26	--	24	233[b]	
				8- 5-52	7.4	560	---	0.05	---	256	18	49	18	68	15	28	--	21	232[b]	
				7-17-53	8.0	570	---	0.02	---	244	21	42	12	68	18	27	--	20	244[b]	
[illegible] 1S/2W- 4M1	W. of Yucaipa; 40 feet N. of Yucaipa Blvd., 430 feet E. of 12th St. Owner: South Mountain Water Co. Use: Irrigation. Casing: 20 inches. Perforated 135-578.	2,153	599	7- 3-53	7.8	520	---	0.04	---	244	18	29	16	63	19	23	--	17	236[b]	
[illegible] 2S/2W- 4J1	W. of Yucaipa; 100 feet S. of Ave. E., 400 feet W. of 12th St. Owner: Western Heights Water Co., well No. 5. Use: Irrigation. Casing: 10 inches.	2,097	788	8- 5-32[a]	---	428	---	0.01	---	236	9	18	4	57	13	19	--	17	196[b]	
				6-17-47	---	392	---	0.30	---	240	7	22	7	62	13	19	--	16	208[b]	
				8-17-52	8.3	500	---	0.02	---	256	11	28	10	58	11	23	--	21	190[b]	
				7-17-53	7.9	470	---	0.02	---	238	9	21	5	58	14	24	--	21	203[b]	
[illegible] 2S/2W- 4L1	W. of Yucaipa; 60 feet S. of Ave. E., 480 feet E. of 15th St. Owner: Western Heights Water Co., well No. 4. Use: Irrigation. Casing: 12 inches. Perforated 105-110; 320-326; 382-385; 400-530.	2,047	537	8- 5-32[a]	---	441	---	0.01	---	238	9	25	4	57	13	24	--	21	196[b]	
				6-17-47	---	477	---	0.30	---	243	6	22	7	58	12	25	--	22	194[b]	
				8-17-52	8.4	450	---	0.03	---	250	7	26	5	54	10	21	--	26	176[b]	
				7-17-53	8.2	450	---	0.04	---	238	9	19	5	54	14	26	--	22	193[b]	
E-135b 2S/2W- 2D1	Yucaipa; 500 feet S. of Yucaipa Blvd., 30 feet W. of 7th St. Owner: J.B. Hundley. Use: Irrigation. Casing: 12 inches.	2,407	345	7-21-32[a]	---	411	---	0.03	---	223	11	17	6	52	14	18	--	18	188[b]	
				6-17-47	---	385	---	0.30	---	226	2	22	12	51	14	19	--	19	185[b]	
				8-28-52	8.1	450	---	0.02	---	226	7	20	8	50	11	19	--	20	170[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								YUCAIPA BASIN - (continued)												
E-135c 1S/2W-34Q1	W. of Yucaipa; 40 feet N. of Yucaipa Blvd., 300 feet W. of Dakota Place. Owner: Crafton-Macy Water Co. Use: Irrigation. Casing: 22 inches.	2,225	450	7-21-32[a]	---	424	---	0.03	---	229	9	16	6	54	14	17	--	16	193[b]	
				6-17-47	---	385	---	0.20	---	225	9	21	11	53	14	18	--	17	190[b]	
				7-17-53	8.0	490	---	0.04	---	238	9	18	4	57	13	28	--	24	196[b]	
E-136b 2S/2W-15A1	SW. of Yucaipa; 1,275 feet W. of U.S. Highway No. 70/99, 180 feet N. of County Line Rd., 125 feet S. and 100 feet W. of NE. corner of Sec. 15, T. 2 S., R. 2 W., S.B.B.&M. Owner: Yucaipa Water Co. No. 1, well No. 1 (old No. 10). Use: Domestic and irrigation. Casing: 16 inches. Perforated 205-363.	2,365	---	12-13-48	8.1	360	---	0.00	---	217	12	18	4	40	10	40	--	38	141[b]	
				5-17-51	7.4	380	---	----	---	238	4	1	Tr.	35	9	34	--	41	124[b]	
				8-27-52	8.4	430	---	0.04	---	214	14	16	11	35	9	37	--	39	124[b]	
E-136c 2S/2W-15A2	SW. of Yucaipa; 1,270 feet W. of U.S. Highway No. 70/99, 90 feet N. of County Line Rd., 215 feet S. and 95 feet W. of NE. corner of Sec. 15, T. 2 S., R. 2 W., S.B.B.&M. Owner: Yucaipa Water Co. No. 1, old well No. 5. Casing: 16 inches.	2,360	330	7- 2-53	8.2	420	---	0.05	---	214	11	11	7	37	11	39	--	38	138[b]	Not in use.
E-136d 2S/2W-10Q1	SW. of Yucaipa; 200 feet N. of Riverside County line, 3,300 feet W. of U.S. Highway No. 70/99. Owner: Redlands-Yucaipa Land Co., Dairy Ranch well. Use: Irrigation. Casing: 20 inches. Perforated 140-378. S.B.Co. F.C.D. sample point No. 412.	2,247	403	7-21-31[a]	---	509	---	0.03	---	278	20	22	3	53	17	38	--	29	202[b]	
				8-22-49[e]	8.5	493	292	----	0.6	249	20	24	8	48	16	32	--	28	186	
E-136e 2S/2W- 2F1	SW. of Yucaipa; 85 feet W. of 6th St., 30 feet N. of E St. Owner: Yucaipa Water Co. No. 1, well No. 3 (old No. 13). Use: Irrigation. Casing: 16 inches.	2,408	372	7- 6-53	7.7	430	---	0.03	---	232	9	31	5	54	12	30	--	26	184[b]	
E-136h 2S/2W-14B1	SW. of Yucaipa; 60 feet S. of County Line Rd., 500 feet E. of Calimesa Blvd. Owner: South Mesa Water Co., well No. 4. Use: Domestic and irrigation. Casing: 16 inches.	2,395	395	12-13-48	7.7	461	---	0.00	---	284	18	19	7	56	19	36	--	27	218[b]	
				5-17-51	7.5	500	---	0.02	---	262	21	27	6	49	20	43	--	31	205[b]	
				8-27-52	8.2	570	---	0.07	---	250	18	44	9	45	12	53	--	41	162[b]	
				6-17-53	8.0	560	---	0.04	---	244	18	40	8	45	17	53	--	39	182[b]	
E-136i 2S/2W-14C1	SW. of Yucaipa; 150 feet W. of Calimesa Blvd., 40 feet S. of County Line Rd. Owner: South Mesa Water Co., well No. 11. Use: Irrigation. Casing: 16 inches. Perforated 205-363.	2,392	443	7-21-32[a]	---	474	---	0.07	---	226	16	28	6	46	15	39	--	32	202[b]	
				7-23-47	---	519	---	0.00	---	237	18	41	9	44	14	49	--	39	168[b]	
				3-15-48	---	421	---	0.00	---	278	17	20	9	55	18	32	--	25	186[b]	
				5-17-51	---	500	---	0.00	---	256	21	40	6	47	14	52	--	40	175[b]	
				8-28-52	8.3	570	---	0.05	---	256	18	46	9	45	14	53	--	41	170[b]	
				7-17-53	8.1	550	---	0.03	---	247	18	37	8	46	15	52	--	38	177[b]	
E-136j 2S/2W-14F1	SW. of Yucaipa; 100 feet N. of Ave. L., 50 feet E. of S. 7th St. produced, 150 feet W. of U.S. Highway No. 70/99. Owner: South Mesa Water Co., well No. 15. Use: Domestic and irrigation. Casing: 16 inches.	2,382	360	12-13-48	8.2	461	---	0.00	---	262	26	18	9	46	21	34	--	27	201[b]	
				8-28-52	7.9	520	---	0.00	---	238	18	27	10	44	13	38	--	31	163[b]	
E-136n 2S/2W-14D1	SW. of Yucaipa; 725 feet S. of County Line Rd., 60 feet W. of 7th Place, in creek bottom. Owner: South Mesa Water Co., well No. 16. Use: Domestic and irrigation.	2,355	---	12-13-48	7.9	405	---	0.00	---	225	18	24	11	44	16	40	--	33	176[b]	
				5-17-51	8.1	500	---	0.00	---	256	21	39	5	48	14	52	--	39	178[b]	
				8-25-52	8.3	530	---	0.07	---	250	18	47	9	46	14	52	--	39	173[b]	
				6-17-53	7.8	480	---	0.05	---	232	18	18	10	40	15	46	--	38	162[b]	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, USGS datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								YUCAIPA BASIN - (continued)												
E-138 2S/2W-11B1	Yucaipa; 15 feet N. of Ave. F, 600 feet W. of 5th St. Owner: Yucaipa Water Co. No. 1, well No. 2 (old No. 12). Use: Irrigation. Casing: 16 inches. Perforated 155-172; 202-240; 260-289; 300-315; 360-378; 398-464.	2,420	464	7-21-32[a]	---	428	---	0.10	---	223	11	25	4	51	11	23	--	22	173[b]	
				7-23-47	---	435	---	0.00	---	221	11	28	7	50	12	27	--	25	174[b]	
				8-14-53	8.3	460	---	0.03	---	244	14	24	9	51	13	29	--	26	181[b]	
E-138b 2S/2W-12M1	S. of Yucaipa; 250 feet N. of Ave. H, 150 feet E. of 4th St. Owner: South Mesa Water Co., well No. 6. Use: Irrigation. Casing: 16 inches. S.B.Co.F.C.D. sample point No. 411.	2,471	406	7-21-32[c]	---	426	---	0.07	---	186	16	34	11	37	10	45	--	42	134[b]	
				12-13-48	8.2	417	---	0.06	---	167	16	59	13	34	9	48	--	46	122[b]	
				8-22-49[e]	8.3	459	285	----	0.8	195	20	39	20	40	11	48	--	42	148	
				7-13-51	7.9	470	---	0.00	---	220	18	35	10	43	11	46	--	40	153[b]	
				8-28-52	8.3	520	---	0.04	---	220	18	31	14	42	11	45	--	39	150[b]	
				6-17-53	7.9	480	---	0.05	---	207	18	28	13	40	12	45	--	39	149[b]	
				7-17-53	8.2	520	---	0.00	---	238	9	18	6	47	15	41	--	33	179[b]	
E-138g 2S/2W- 1F1	Yucaipa; 75 feet N. of Ave. E, 400 feet W. of 2nd St. Owner: Yucaipa Water Co. No. 1, well No. 6 (old No. 19). Use: Irrigation. Casing: 16 inches.	2,580	500	7- 2-53	7.9	590	---	0.06	---	177	21	123	6	46	8	76	--	53	148[b]	
E-139 1S/2W-24R1	N. of Yucaipa; 20 feet W. of Bryant Ave., 0.23 mile N. of Carter St. Owner: Triple Falls Water Co., well No. 2. Use: Irrigation. Casing: 16 inches.	2,842	650	8- 5-32[a]	---	474	---	0.09	---	223	9	38	7	45	11	46	--	39	158[b]	
				6-17-47	---	482	---	0.30	---	251	10	49	12	52	13	49	--	37	183[b]	
				8-25-52	---	600	---	0.08	---	262	11	54	8	49	11	55	--	41	168[b]	
				6-17-53	7.8	550	---	0.05	---	230	11	46	5	50	12	50	--	37	174[b]	
				7-17-53	8.0	540	---	----	---	247	11	40	6	50	12	50	--	39	174[b]	
E-139a 1S/1W-30E1	N. of Yucaipa; 0.37 mile S. of Carter St., 65 feet E. of Bryant Ave. Owner: Section 30 Mutual Water Co. Use: Irrigation. Casing: 16 inches. Perforated 208-262; 294-318; 324-330; 334-358; 376-384; 400-414.	2,817	420	8- 5-32[a]	---	604	---	0.07	---	296	11	51	8	64	16	50	--	33	226[b]	
				6-13-40	---	590	---	----	---	305	20	72	18	67	14	71	--	40	225[b]	
				6-17-47	---	562	---	0.20	---	304	11	57	14	65	13	54	--	35	216[b]	
				3-15-48	---	513	---	0.00	---	302	10	60	12	66	14	48	--	33	223[b]	
				7-13-51	8.1	600	---	0.01	---	269	11	56	9	55	11	52	--	38	183[b]	
				7- 2-53	8.3	630	---	0.07	---	293	11	59	5	64	15	55	--	35	222[b]	
				7-17-53	7.9	600	---	0.05	---	284	12	46	7	56	16	53	--	36	206[b]	
E-139f 1S/2W-25J1	N. of Yucaipa; 1,300 feet W. of Bryant Ave., 440 feet S. of Fir St. produced. Owner: F.G. Martin, well No. 2. Use: Irrigation. Casing: 16 inches.	2,760	398	8- 5-32[a]	---	581	---	0.09	---	277	11	58	7	57	13	56	--	38	196[b]	
				11-30-48	---	495	---	0.00	---	286	13	58	9	58	14	56	--	38	203[b]	
				7-13-51	---	570	---	0.02	---	275	11	52	7	54	12	54	--	41	184[b]	
				8-28-52	8.0	570	---	0.06	---	250	11	54	7	42	12	56	--	44	154[b]	
				7- 2-53	8.2	600	---	0.06	---	274	11	50	5	53	14	55	--	39	190[b]	
				7-17-53	8.1	600	---	0.05	---	268	12	47	5	52	15	56	--	39	192[b]	
E-139g 1S/2W-24M1	N. of Yucaipa; 100 feet W. of Bryant Ave. produced, 0.1 mile N. of Ivy St., 200 feet NE. of curve in Bryant Ave. Owner: W.K. Gillespie. Use: Domestic and irrigation. Casing: 12 inches. Perforated 90-400. S.B.Co. F.C.D. sample point No. 943.	2,920	400	7-13-53[e]	7.4	691	426	0.05	1.0	322	20	79	6	66	23	58	2	32	258	
E-140 1S/1W-29P1	NE. of Yucaipa; 100 feet N. of Oak Glen Rd., 1,550 feet E. of Jefferson St. produced. Owner: Leon Atwood, Atwood No. 1 well. Use: Domestic and irrigation. Casing: 16 inches. S.B. Co.F.C.D. sample point No. 417.	-----	145	8-23-49[e]	7.9	417	252	----	0.3	220	11	33	5	52	15	16	--	7	189	

MINERAL ANALYSES OF GROUND WATERS

(CONTINUED)

Serial and state well numbers	Location and description	Elevation of ground surface, U.S.G.S. datum	Total depth of well, in feet	Date sampled	pH	Conductivity (EC x 10⁶ at 25°C.)	Total dissolved solids, in ppm	Mineral constituents, in parts per million: Boron (B)	Fluoride (F)	Bicarbonate (HCO_3)	Chloride (Cl)	Sulphate (SO_4)	Nitrate (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Per cent sodium	Total hardness as $CaCO_3$, in ppm	Remarks
								YUCAIPA BASIN - (continued)												
E-140d 1S/1W-31H1	Yucaipa; 1,000 feet N. of Date St., 475 feet W. of Pendleton Ave. Owner: H.G. Smith. Use: Domestic and irrigation. Casing: 16 inches. Perforated 275-285; 299-323.	2,980	383	8- 5-32[a]	---	492	---	0.07	---	247	14	32	4	56	14	30	--	25	198[b]	
				10-18-37	---	488	---	0.10	---	245	13	19	5	59	13	30	--	24	201[b]	
				12- 1-48	---	403	---	0.00	---	236	12	29	11	56	13	29	--	24	193[b]	
				7-13-51	8.2	470	---	0.00	---	238	11	30	7	54	12	14	--	14	184[b]	
				8-28-52	8.1	530	---	0.07	---	238	14	34	10	53	12	29	--	25	182[b]	
				7- 2-53	8.2	510	---	0.06	---	244	12	31	4	56	15	30	--	24	202[b]	
				7-17-53	8.0	500	---	0.01	---	233	12	24	6	53	15	29	--	25	194[b]	
E-141 2S/1W- 8E1	SE. of Yucaipa; 0.1 mile E. of intersection of Jefferson St. and Wildwood Canyon Rd., 70 feet S. of Wildwood Canyon Rd. Owner: Yucaipa Water Co. No. 1, Wildwood Canyon well (old No. 9). Use: Irrigation. Casing: 16 inches. Perforated 50-129.	2,812	145	7-21-32[a]	---	478	---	0.05	---	244	16	Tr.	4	49	16	33	--	27	188[b]	
				12- 1-48	---	425	---	0.00	---	251	18	29	7	52	16	35	--	28	196[b]	
				7-13-51	8.1	500	---	0.02	---	256	11	26	5	49	15	37	--	31	184[b]	
				8-28-52	8.3	510	---	0.03	---	250	16	28	7	49	16	36	--	29	188[b]	
				7- 2-53	8.1	560	---	0.06	---	299	21	14	2	58	19	35	--	25	223[b]	
				7-29-53	8.2	450	---	0.01	---	238	4	20	5	48	15	30	--	26	182[b]	
E-141b 2S/1W- 8E2	SE. of Yucaipa; 450 feet E. of intersection of Wildwood Canyon Rd. and Jefferson St., 700 feet S. of Wildwood Canyon Rd., on top of mesa. Owner: Yucaipa Water Co. No. 1, Wildwood Mesa well. Use: Irrigation.	2,860	---	7-21-32[a]	---	490	---	0.06	---	259	18	20	4	51	18	33	--	26	201[b]	
				10-18-37	---	418	---	0.10	---	226	9	26	4	49	16	18	--	27	188[b]	
				7-23-47	---	507	---	0.00	---	261	19	27	6	51	17	34	--	27	197[b]	
				12- 1-48	---	431	---	0.00	---	258	19	30	6	52	18	33	--	26	204[b]	
				7-13-51	7.8	262	---	0.00	---	262	21	27	4	53	17	38	--	29	202[b]	
				8-28-52	7.9	560	---	0.03	---	274	18	28	6	52	16	39	--	30	196[b]	
E-142g	NE. of Yucaipa; 4.1 miles E. of Bryant Ave. along Oak Glen Canyon Rd., then 200 feet NE. along dirt road, then 50 feet NW. of dirt road to well. Owner: Yucaipa Water Co. No. 1. Use: Domestic. Casing: 20 inches. Perforated 60-484. S.B.Co.F.C.D. sample point No. 416.	-----	500	8-23-49[g]	7.7	444	270	----	0.5	229	10	45	12	55	18	11	--	10	214	
E-232 2S/2W-23H1	S. of Yucaipa; 200 feet NE. of U.S. Highway No. 70/99, 1.0 mile SE. of Ave. L. Owner: D.B. Cooper. Use: Irrigation. Casing: 12 inches. Perforated 178-182; 205-216; 218-234; 256-264; 274-284.	2,387	285	7-21-32[a]	---	404	---	0.03	---	195	28	8	6	28	17	39	--	37	140[b]	
				12-29-48	8.2	385	---	----	---	208	34	4	6	29	18	42	--	38	146[b]	
				5-24-51	7.9	390	---	----	---	201	32	29	6	26	16	63	--	51	131[b]	
				6-17-53	8.3	420	---	0.01	---	207	32	5	7	28	16	41	--	39	136[b]	

a Analysis copied from Division of Water Resources Bulletin No. 40-A, "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters". 1933.
b Calculated by Division of Water Resources.
c Analysis by Edward S. Babcock and Sons, Riverside, California.
d Analysis by United States Department of Agriculture, Agricultural Research Service, Soil and Water Conservation Research Branch, United States Salinity Laboratory, Riverside, California.
e Analysis by San Bernardino County Flood Control District.
f Analysis by Pacific Chemical Consultants, Van Nuys, California.
g Analysis copied from City of San Bernardino Municipal Water Department.
h Analysis copied from owner.
i Analysis by Los Angeles County Flood Control District.
j Analysis by United States Department of the Interior, Geological Survey, Water Resources Division, Quality of Water Branch, Sacramento, California. Unpublished records, subject to revision.
k Analysis by Cal Engineers, El Monte, California.
m Includes small quantities of nitrite (NO_2) and organic nitrogen (N), computed as total nitrate (NO_3).

All analyses by Division of Water Resources, except as noted.

APPENDIX A

CROSS INDEX BETWEEN LOCATION AND STATION SURFACE WATER SAMPLING POINT NUMBERING SYSTEMS

APPENDIX A

CROSS INDEX BETWEEN LOCATION AND STATION
SURFACE WATER SAMPLING POINT NUMBERING SYSTEMS

Station number	Location number	Station number	Location number
82-28.2	S-15822	82-57.9-0.8-5.8-10.3	S-19444
82-30.5	S-15851	82-57.9-0.8-5.8-11.7	S-19432A
82-31.2-0.4	S-15850	82-57.9-0.8-5.8-13.0-0.1	S-19441A
82-31.2-1.4	S-15850B	82-57.9-0.8-5.8-13.1	S-19442
82-31.2-1.5-0.2	S-16758	82-57.9-0.8-12.9	S-19459
82-31.2-1.5-2.0	S-16776	82-57.9-0.8-12.9-4.6	S-18704
82-31.2-1.5-3.4-15.4	S-4564	82-57.9-1.1	S-17992A
82-31.2-3.3-1.7	S-16764	82-57.9-1.2-0.6	S-18001A
82-31.2-3.4-1.3	S-16754	82-57.9-1.8	S-17984
82-31.2-3.8-0.9	S-16744	82-57.9-1.9-0.1	S-18001B
82-31.2-4.9	S-16735	82-57.9-1.9-0.7	S-18000
82-31.2-7.3	S-16759	82-57.9-1.9-2.3	S-18789
82-31.2-8.3	S-1991A	82-57.9-1.9-2.5-0.1	S-18779
82-31.2-8.4-0.1	S-1991	82-57.9-2.0	S-18001
28-31.2-8.4-1.3-1.1	S-1950	82-57.9-2.3-0.8	S-18020B
82-31.2-8.4-2.1-0.4	S-1951A	82-57.9-2.3-1.0	S-18020
82-31.2-8.4-2.4	S-1951	82-57.9-3.4	S-18809
82-31.2-8.5	S-1991B	82-57.9-3.7-0.1	S-18819
82-31.2-10.9-10.8	S-4522	82-57.9-4.2	S-18829
82-31.2-10.9-12.2	S-4521	82-57.9-4.3-1.0	S-18849
82-31.2-10.9-16.5	S-5628	82-57.9-4.3-4.0	S-18898
82-31.3	S-15850A	82-57.9-4.3-6.4	S-18916
82-31.5	S-15860	82-57.9-4.3-7.2	S-18915
82-33.2-0.2	S-16779	82-57.9-4.6	S-18828
82-33.2-2.6	S-15920	82-57.9-5.3-0.4	S-18837
82-33.2-3.5	S-15931	82-57.9-5.3-3.4	S-18833
82-33.2-4.9	S-15962	82-57.9-5.3-3.6-0.2	S-18822A
82-33.2-15.3-2.5	S-14825	82-57.9-5.3-3.6-0.8	S-18822
82-33.2-17.2-1.8	S-14846	82-57.9-5.3-3.6-1.5	S-18821A
82-33.2-18.1-2.5	S-14868	82-57.9-5.3-3.6-1.9	S-18820A
82-34.4-0.4	S-16807A	82-57.9-5.3-4.4	S-18831
82-34.4-1.6-0.1	S-16816	82-57.9-5.3-5.4	S-18841A
82-34.4-2.0	S-16816A	82-57.9-6.5	S-18857A
82-34.8	S-16807	82-57.9-6.8	S-18857
82-38.2	S-16845	82-57.9-7.3	S-18867
82-38.2-16.3	S-18562	82-57.9-7.5-1.1	S-18876
82-41.6	S-16873	82-57.9-7.5-2.0	S-18874
82-45.2	S-16933	82-57.9-7.6	S-18867A
82-46.4	S-16953A	82-58.8	S-18003
82-46.5	S-16953	82-59.6-0.2	S-18023
82-47.1	S-16963	82-59.6-0.7	S-18023A
82-47.7-2.6-5.4	S-17094A	82-59.6-1.3	S-18033
82-50.2	S-17000	82-59.6-2.5	S-18054

Station number	Location number	Station number	Location number
82-52.8-1.8	S-17967B	82-59.6-8.5-0.1	S-18139
82-52.8-2.1	S-17967C	82-59.6-8.6	S-18139A
82-55.9	S-17965	82-59.6-19.6-4.8-3.5	S-18366
82-57.1-0.5	S-17973	82-59.7	S-18022
82-57.9-0.5	S-17993	82-63.2-1.9-0.9	S-18919
82-63.2-4.9	S-18959	82-69.6-7.6	S-18260
82-63.2-5.8	S-18958	82-70.6	S-18999B
82-64.3	S-18090	82-71.1	S-18999
82-68.5	S-18160	82-78.7-7.3	S-19915
82-69.6-3.3-3.3	S-18282	82-78.8-0.1	S-19009
82-69.6-5.4	S-18260A	82-78.9	S-19009

APPENDIX B

CROSS INDEX BETWEEN SERIAL AND STATE WELL NUMBERING SYSTEMS

APPENDIX B

CROSS INDEX BETWEEN SERIAL AND
STATE WELL NUMBERING SYSTEMS

State well number	Serial number	State well number	Serial number
1N/3W-19M2	E-443b	1N/4W-27A1	E-35w
-19M3	E-443c	-27M1	E-26j
-27N1	E-58b	-28Q1	E-20
-27N2	E-58q	-29D1	E-4f
-27N5	E-58a	-29E1	E-4a
-29M1	E-53a	-29E3	E-4c
-31B1	E-59e	-29L1	E-16h
-31K2	E-50p	-29P2	E-12f
-31L1	E-50c	-31A1	E-5e
-31M1	E-53j	-32D3	E-12j
-31Q2	E-50m	-32G1	E-12a
-31Q4	E-50x	-32N1	E-6w
-31Q8	E-450j	-33M1	E-17a
-31R4	E-453c	-34D1	E-26a
-32B1	E-54a	-34G1	E-31e
-32C1	E-49d	-34G3	E-31f
-32N1	E-50h	-35C1	E-36
-33M1	E-55L	-35C2	E-36a
1N/4W- 6H1	E-1	-35M3	E-40i
- 8M1	E-2a	-36C1	E-45c
-14C1	E-34j	-36F1	E-45f
-14J1	E-34k	-36F3	E-45h
-14J2	E-34g	-36F4	E-45b
-14J3	E-34L	-36G4	E-45aa
-14R3	E-34o	-36G5	E-445e
-14R4	E-34m	-36G6	E-443e
-14R6	E-34	-36K2	E-45u
-14R7	E-34n	-36Q1	E-46j
-16E1	E-10	-36R2	E-46i
-20M1	E-4e	1N/5W- 2K1	D-1185a
-20N1	E-4d	- 3A1	D-1184
-24A1	E-43o	- 4B1	D-1173
-24A2	E-44d	- 6G1	D-1161
-24B1	E-44x	- 6K2	D-1162d
-24C1	E-444f	- 7H1	D-1162a
-24H4	E-44o	-10B1	D-1184a
-25C1	E-443d	-17K1	D-1170b
-25F3	E-444	-22F1	D-1181a
-25K1	E-44k	-22F2	D-1181b
-25N2	E-45k	-22F3	D-1181d
-25Q1	E-45q	-23H1	D-1188h
-25Q3	E-43v	-28J1	D-1177a
-26A1	E-35x	-36J3	D-1191f
-26P3	E-36r	1N/6W-17C1	D-1186

State well number	Serial number
1N/6W-25K1	D-1156
-26K1	D-1153
1N/7W-23J1	D-1116a
-23K1	D-1116b
-27Q1	D-1108d
-28Q1	D-1105d
-29E1	D-707
-32R1	D-708
-32R2	D-1106h
-33A1	D-1106d
-33N1	D-1106g
-34A1	D-1107m
-34E1	D-1107a
-34H1	D-1107o
1N/8W-25K1	D-705g
-24L1	D-701a
-25M1	D-705m
-34L1	C-656d
-34N1	C-656j
-34P1	C-656t
-35J1	D-711a
-35K1	D-711c
2N/5W-19K1	D-1265
-19R1	D-1264
3N/6W-26Q1	D-1260a
1S/1W-29P1	E-140
-30E1	E-139a
-31H1	E-140d
1S/2W-13F1	E-134f
-14K1	E-134a
-16F1	E-131f
-19D1	E-123g
-19G1	E-123f
-19J1	E-127o
-19K1	E-127a
-21E1	E-127f
-24H1	E-139s
-24R1	E-139
-25J1	E-139f
-30B2	E-127g
-30B3	E-128
-30C1	E-123e
-34N1	E-132h
-34N2	E-132i
1S/3W- 1H1	E-62a
- 2J2	E-62c
- 2L1	E-61c
- 2P2	E-61f
- 3N3	E-59r
- 3Q1	E-59d

State well number	Serial number
1S/3W- 4J1	E-59m
- 5D1	E-51h
- 6H2	E-51
- 6L1	E-51a
- 6P1	E-52b
- 6P11	E-51v
- 6R2	E-52m
- 9E1	E-57y
-13P1	E-123u
-13P2	E-123m
-14P1	E-119e
-14P2	E-119c
-14R1	E-123a
-15M3	E-113e
-15N1	E-113f
-15R1	E-119
-16A1	E-113
-16J1	E-113a
-16K1	E-113h
-16L2	E-109h
-16L4	E-109n
-17C2	E-109f
-17H1	E-109i
-17H3	E-109L
-17L1	E-109e
-17R1	E-110d
-17R2	E-110bb
-18H1	E-105e
-18L1	E-105d
-19G1	E-106f
-19G2	E-106j
-19J2	E-106L
-19J3	E-106h
-19L1	E-106i
-19N1	E-102aa
-20A1	E-110n
-20C1	E-110u
-20F1	E-110p
-20H3	E-110y
-20K1	E-110j
-20P1	E-110t
-20R1	E-111cc
-20R2	E-110k
-21A1	E-114x
-21C1	E-109o
-21E1	E-110h
-21E5	E-110x
-21E6	E-110g
-21H2	E-114g
-21H3	E-114f

State well number	Serial number
1S/3W-21K1	E-114o
-22A1	E-119d
-22F1	E-114L
-23A1	E-123L
-23A2	E-123d
-23F1	E-119b
-24A1	E-123o
-24C1	E-123c
-27E2	E-114e
-28B1	E-114j
-28C1	E-110s
-28E2	E-111u
-28H1	E-114i
-28L1	E-111m
-28M3	E-111w
-29A2	E-111x
-29D1	E-115
-29D2	E-106k
-29H3	E-111t
-29J1	E-111bb
-29J3	E-111dd
-29K2	E-111r
-30D4	E-115c
-30Q1	E-107m
-31A3	E-107q
-31H1	E-107k
-32G1	E-111g
-32G4	E-111f
-32J2	E-112t
-32K1	E-111p
-33C1	E-111k
-35G7	E-120j
-35H2	E-120k
-35H3	E-120m
1S/4W- 1H4	E-447L
- 2A3	E-42c
- 2K2	E-42a
- 2K3	E-42i
- 2N4	E-33g
- 2N6	E-32r
- 2P5	E-39i
- 3Q3	E-33p
- 5E1	E-14e
- 8F6	E-15a
- 8F10	E-15t
- 9B1	E-23
- 9J1	E-88w
- 9N4	E-85h
- 9P1	E-85t
-10F1	E-29

State well number	Serial number
1S/4W-10F5	E-29a
-10F6	E-33d
-10M2	E-92y
-10N6	E-93r
-11E1	E-97o
-11E13	E-497u
-11N1	E-96r
-13B2	E-101L
-13C1	E-105x
-13D5	E-97e
-13D7	E-104f
-13E1	E-97
-13E3	E-99r
-13E4	E-101d
-13F2	E-101c
-13F3	E-100g
-13G2	E-115e
-13M2	E-101b
-13N1	E-98p
-13N3	E-501
-13N4	E-501b
-13R1	E-102q
-14F6	E-400a
-14N3	E-100b
-15L1	E-93p
-15M2	E-93d
-15R1	E-98d
-16H3	E-93j
-16J8	E-95p
-16L3	E-89t
-16Q1	E-89x
-17M1	E-70d
-18G1	E-70g
-21A1	E-94a
-21L1	E-90n
-21N1	E-90h
-21Q3	E-90e
-21R1	E-90r
-22A1	E-94b
-22B4	E-94e
-22B6	E-495L
-22B7	E-495m
-22E2	E-94r
-22G1	E-94d
-22G11	E-94p11
-22G14	E-94y
-22G16	E-495p
-22G17	E-495n
-22G18	E-495q
-22G19	E-495o

State well number	Serial number
1S/4W-22Q1	E-96g
-22R1	E-98
-23A1	E-498L
-23A2	E-498k
-23D2	E-130h
-23K2	E-98s
-23N1	E-99e
-23P2	E-98h
-23Q1	E-99d
-23R3	E-98t
-24F2	E-102i
-24P1	E-102L
-24R2	E-102r
-25B2	E-103m
-25C1	E-102p
-25E1	E-103c
-25H2	E-103
-26A1	E-98v
-26D6	E-100t
-26F1	E-99
-26H1	E-498e
-26J1	E-103u
-27A12	E-94f
-27H7	E-96h
-27L1	E-96i
-28K1	E-91a
-29H1	E-87a
-29H2	E-87
-29Q1	E-80
-29Q3	E-87c
-29R1	E-87b
-30D2	E-71b
-30D6	E-41d
-30J1	E-75c
-30L1	E-72d
-31A1	E-76h
-34G1	E-96aa
-36J1	E-104
1S/5W- 2K1	D-1085
- 4D1	D-1073
- 5A2	E-1072a
- 5A3	D-1072
- 6D1	D-1061
- 7N1	D-1062a
- 7R1	D-1062
-12N1	D-1095
-15G1	D-1082
-16J1	D-1075
-19A1	D-1064a
-20D1	D-1069

State well number	Serial number
1S/5W-21B1	D-1076
-21D1	D-1076a
-23Q1	D-1088a
-24E1	D-1093
-24M1	D-1093a
-24Q1	D-1092n
-25B2	D-1092d
-25E1	D-1092o
-25M1	D-1092k
-25R2	D-1092e
-33A2	D-1079h
-34A1	D-1079
-34B1	D-1079c
-34B2	D-1079a
-34D1	D-1079b
-34F1	D-1079f
-35D1	D-1090i
-35G1	D-1090a
-35J2	D-1090k
-36B1	D-1091
-36C5	D-1091a
1S/6W- 4P1	D-1037b
-11B1	D-1050a
-11N1	D-1050
-12P1	D-1059
-16J1	D-1039d
-16L1	D-1039c
-20B1	D-1033
-25C1	D-1056
-28E1	D-1041
-29C1	D-1029
-29R1	D-1029b
-32P1	D-936b
-33A1	D-1042b
-33B1	D-1042a
-34K2	D-1043g
-34M1	D-1043
-35A1	D-1054c
1S/7W- 3H1	D-1012a
- 4A1	D-1001e
- 4B1	D-1001b
- 4B2	D-1001c
- 4E1	D-1001j
- 8N1	D-716
- 9J1	D-1002b
-20A1	D-726b
-20A2	D-726
-20A3	D-726a
-21D1	D-726c
-23D1	D-1016

State well number	Serial number
1S/7W-27D1	D-1008c
-27R1	D-1007e
-28R1	D-1005a
-30P1	D-735f
-30Q1	D-735a
-30R1	D-735b
-33E1	D-1006
-34B1	D-1007f
-34M1	D-1007a
-35E1	D-1018a
1S/8W- 2B1	D-712a
- 3A1	C-659i
- 5A1	C-661f
- 5D1	C-622a
- 7N1	C-611
-10N1	C-665
-12K1	D-718
-13L1	D-723a
-14B1	D-722d
-14B2	D-722c
-15H1	D-722k
-15Q1	D-732
-16B1	C-666
-17K1	C-667k
-18J1	C-649e
-20D1	C-670w
-23N1	D-729
-25D1	D-734c
-25R1	D-735g
-26B1	D-733e
-28E1	C-673g
-28E2	C-673a
-28F1	C-673
-28G1	C-673c
-28M1	C-673f
-28N1	C-673e
-29H1	C-674e
-31H1	C-678k
-33K1	D-742
-34A1	D-741s
-35C1	D-740a
-35C2	D-740b
1S/9W-12N1	C-583b
-12Q1	C-581c
-12R1	C-611m
-27B1	E-94g
2S/1W- 8E1	E-141
- 8E2	E-141b
-10J1	E-146d
-14N1	E-254j

State well number	Serial number
2S/1W-19B1	E-235e
-21L1	E-243j
-25D1	E-256a
-29A1	E-240f
-29A2	E-240L
-29B1	E-240u
-29H1	E-244f
-30E1	E-236
2S/2W- 1F1	E-138g
- 2D1	E-135b
- 2F1	E-136e
- 4J1	E-133
- 4L1	E-133a
- 8L1	E-130
- 8L2	E-130f
-10Q1	E-136d
-11B1	E-138
-12M1	E-138b
-14B1	E-136h
-14C1	E-136i
-14D1	E-136n
-14F1	E-136j
-15A1	E-136b
-15A2	E-136c
-23H1	E-232
-25D1	E-233
-25D2	E-233p
-25D3	E-233q
-25F1	E-233h
-28J1	E-227
-34Q1	E-135c
-35D1	E-230b
-35D2	E-230i
2S/3W- 4E1	E-112h
- 4N1	E-112g
-24A1	E-223d
-24B1	E-223
2S/4W- 5C1	E-82
- 6A1	E-77b
- 6A3	E-77
- 6Q2	E-73a
- 6R1	E-77e
- 7L1	E-74d
- 7N1	E-74e
- 8D1	E-74g
- 8D2	E-74h
-12P1	E-115f
-18C1	E-201k
-18E1	E-201d
-19A1	E-206c

State well number	Serial number	State well number	Serial number
2S/4W-19E1	E-201L	2S/6W-30J2	D-929a
-19J1	E-206a	-30N1	D-929e
-19N1	E-202e	-30P1	D-929b
-19R1	E-207d	-30Q1	D-929c
-20N1	E-206	-31C1	D-930
-29M1	E-207b	2S/7W- 2D1	D-913d
-31E1	E-203a	- 2E1	D-913e
2S/5W- 1M4	E-67j	- 3A1	D-912
- 2P1	D-985m	- 3H1	D-912a
- 2R1	D-985k	- 3M1	D-912c
- 2R3	D-985e	- 3Q1	D-911h
- 3C1	D-984	- 4A1	D-901
- 8Q1	D-971a	- 4D1	D-737c
-10F1	D-983c	- 5A1	D-748b
-11A1	D-985d	- 6J1	D-747e
-12C1	E-68k	-10C1	D-911a
-12K1	E-69	-10G1	D-911i
-13R1	E-201	-10L1	D-911g
-16A1	D-975c	-10M1	D-911
-16M1	D-975d	-10R1	D-911d
-22R1	E-192d	-11D1	D-914
-23Q1	E-197	-14D1	D-915f
-23R1	E-197b	-14E1	D-915
-24B1	E-201j	-14Q1	D-915g
-24C1	E-196d	-15A1	D-910e
-26F1	E-197a	-15E1	D-910a
-29A1	D-968b	-15K1	D-910b
-29C1	D-968a	-15P1	D-910i
2S/6W- 3B1	D-1043h	-15Q1	D-910f
- 3D1	D-1043e	-15Q2	D-910j
- 4A1	D-1043c	-17D1	D-762
- 5A1	D-936	-17L1	D-762a
- 6D1	D-925	-17L2	D-762g
- 6N1	D-925d	-19B1	D-764a
- 8A1	D-935b	-21L1	D-904b
-12M1	D-959	-21L2	D-904e
-16M1	D-939	-22A1	D-916i
-17M1	D-934	-22C1	D-909f
-18F1	D-927b	-22E1	D-909c
-21B1	D-940a	-22H1	D-909g
-21Q1	D-940d	-22H2	D-909h
-22L2	D-952g	-22K1	D-909
-22N1	D-940i	-23C1	D-915d
-22P2	D-952f	-23D1	D-916e
-22Q1	D-952e	-23E1	D-916
-23G1	D-952a	-23J1	D-916b
-26D1	D-952	-24L1	D-921b
-27D2	D-940g	-25M1	D-920c
-27D3	D-940h	-27A1	D-909d
-29P1	D-932	-27A2	D-909a

State well number	Serial number
2S/7W-27J1	D-908a
-30G1	D-773a
-30H1	D-773g
-30H2	D-773k
-30J1	D-773c
-30R2	D-776e
-31E1	D-776f
-31L1	D-776i
-32F1	D-775
-32K1	D-775m
-32Q1	D-775n
-34A1	D-907c
-34C1	D-907a
-34K2	D-907b
-34P1	D-907h
-35G1	D-918c
-35J1	D-918d
-35J2	D-918e
-35K1	D-918i
-36D1	D-919d
-36F1	D-919b
-36G1	D-919i
-36J1	D-919f
-36K1	D-919a
-36M1	D-919
-36M2	D-919p
2S/8W- 2C1	D-745
- 2D1	D-744h
- 5G1	C-682i
- 9C1	D-754L
-10L1	D-753c
-13L1	D-760g
-14B1	D-759c
-14H1	D-759d
-15L1	D-758a
-15L2	D-758m
-15Q1	D-758g
-16C1	D-757k
-16J2	D-757a
-17K1	D-756a
-17L1	D-756
-17L2	D-756b
-22B1	D-767a
-22F1	D-767e
-23A1	D-759f
-23M1	D-767c
-25K1	D-772f
-25L1	D-772b
-25L2	D-772j
-25M1	D-772

State well number	Serial number
2S/8W-26D1	D-771b
-26K1	D-771e
3S/1W- 4Q1	E-246
-12D1	E-258c
3S/4W-10B1	E-218
-19A1	E-339
-19R1	E-339a
3S/5W- 5M1	E-180j
- 5Q1	E-242
- 7E1	E-174
- 9E2	E-188
-15A1	E-195a
-17K1	E-183
-17Q1	E-183a
-19C1	E-309
3S/6W- 5P1	E-156c
-10J1	E-164d
-13B1	E-175
-13B2	e-175a
-13M1	E-169n
-13N1	E-169b
-13N2	E-169c
-14K1	E-165d
-15R1	E-165a
-18Q1	E-159b
-22L1	E-298
-22P1	E-298w
-24P1	E-304a
-28H1	E-294b
-28M1	E-294e
-28P1	E-295
-29N1	E-291e
-29Q1	E-291d
-30F1	E-286c
-30N1	E-287
-30Q1	E-287d
-31D2	E-287c
-31R1	E-287e
3S/7W- 2C1	D-813c
- 3A1	D-812b
- 3N1	D-812
- 3N2	D-812e
- 3R1	D-812a
- 4A1	D-801
- 4D1	D-801b
- 4H1	D-801c
- 5A1	D-801a
- 5B1	D-782h
- 9A1	D-802h
- 9D1	D-783e

State well number	Serial number	State well number	Serial number
3S/7W-10C1	D-811a	3S/7W-26G1	E-275g
-10G1	D-811c	-26K1	E-276
-22A1	E-151m	-27H1	E-273a
-22A2	E-272	-29E1	E-265i
-23J1	E-279c	-30K1	E-266
-23K1	E-279e	-30K2	E-266a
-23K2	E-274	-35L1	E-276c
-23M2	E-274f	3S/8W- 1H1	D-780b
-23N1	E-274c	- 1L1	D-780h
-24C1	E-153i	-25J1	E-266f
-24E1	E-281k	4S/4W- 7K1	E-337
-24F1	E-281u	4S/5W- 5D1	E-316f
-24Q1	E-281a	-17P1	E-317c
-24R2	E-286a	-17P2	E-317d
-25H1	E-286i	4S/6W- 7G1	E-292a
-25J1	E-287a	- 9C1	E-296
-25M1	E-282c	-16G1	E-297a
-25N1	E-283	4S/7W- 3F1	E-277a
-26C1	E-275e	- 3L1	E-277f

STATE OF CALIFORNIA
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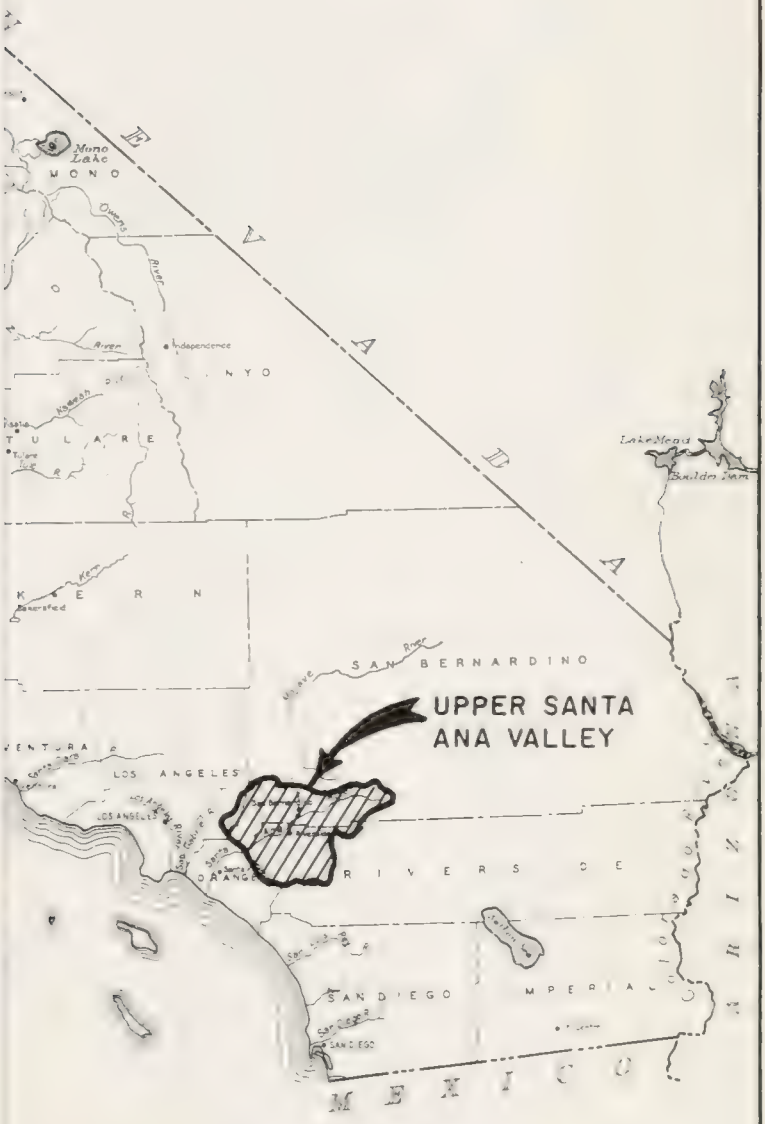
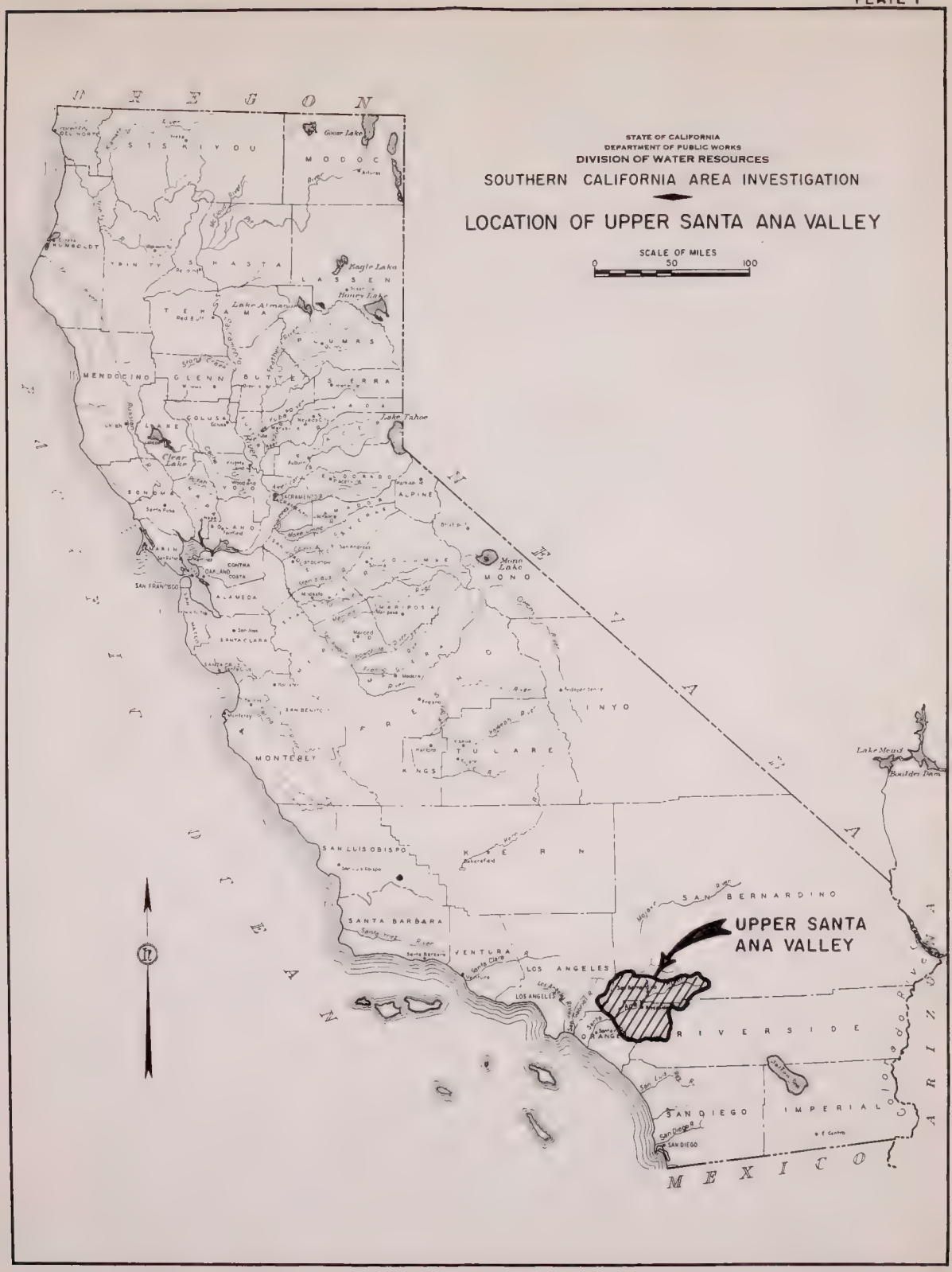
DIVISION OF WATER RESOURCES

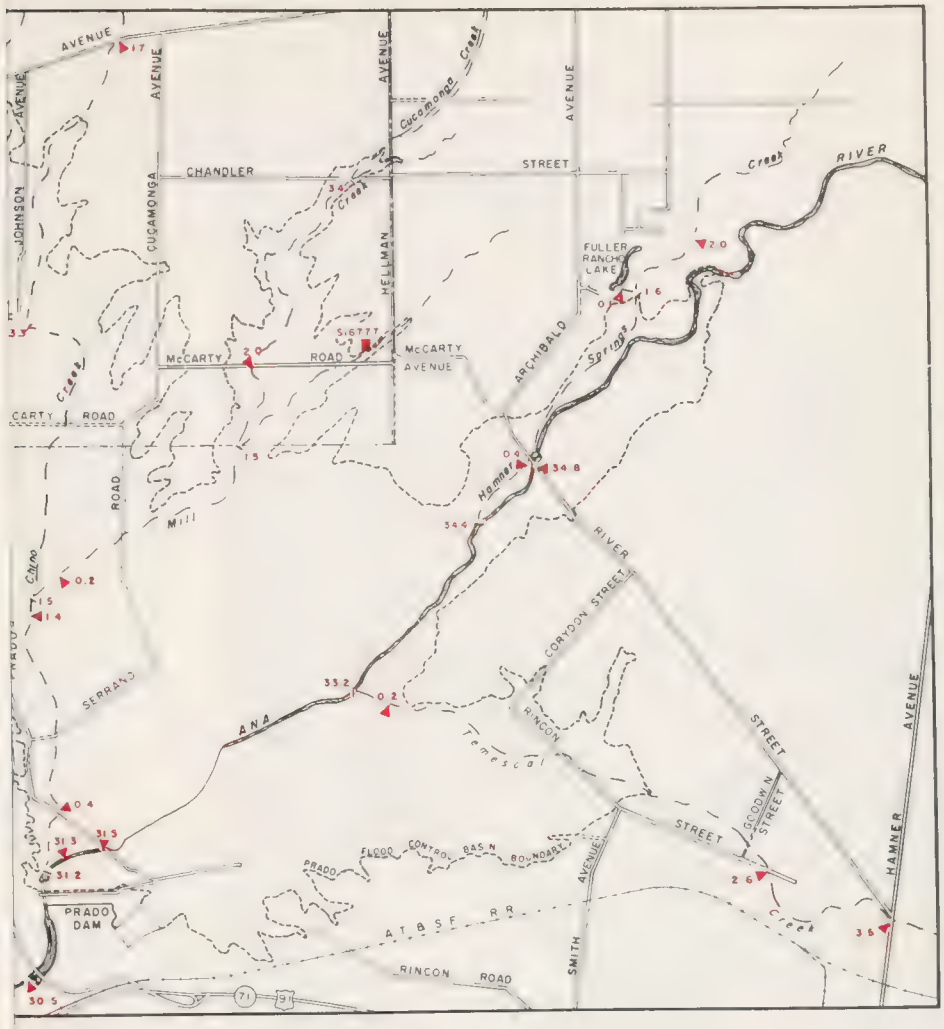
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF UPPER SANTA ANA VALLEY

SCALE OF MILES
0 50 100




STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF UPPER SANTA ANA VALLEY
SCALE OF MILES
0 50 100
UPPER SANTA ANA VALLEY
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
SISKIYOU
MODOC
HUMBOLDT
TRINITY
SHASTA
LASSEN
TEHAMA
PLUMAS
MENDOCINO
GLENN
BUTTE
SIERRA
COLUSA
LAKE
NEVADA
PLACER
YOLO
EL DORADO
ALPINE
SONOMA
NAPA
SACRAMENTO
AMADOR
MARIN
CONTRA COSTA
ALAMEDA
SAN FRANCISCO
TUOLUMNE
MONO
MARIPOSA
SANTA CLARA
MADERA
INYO
SAN BENITO
MONTEREY
TULARE
KINGS
KERN
SAN LUIS OBISPO
SAN BERNARDINO
SANTA BARBARA
VENTURA
LOS ANGELES
RIVERSIDE
SAN DIEGO
IMPERIAL
Goose Lake
Eagle Lake
Honey Lake
Lake Almanor
Lake Tahoe
Clear Lake
Mono Lake
Lake Mead
Boulder Dam
Salton Sea



INSET B

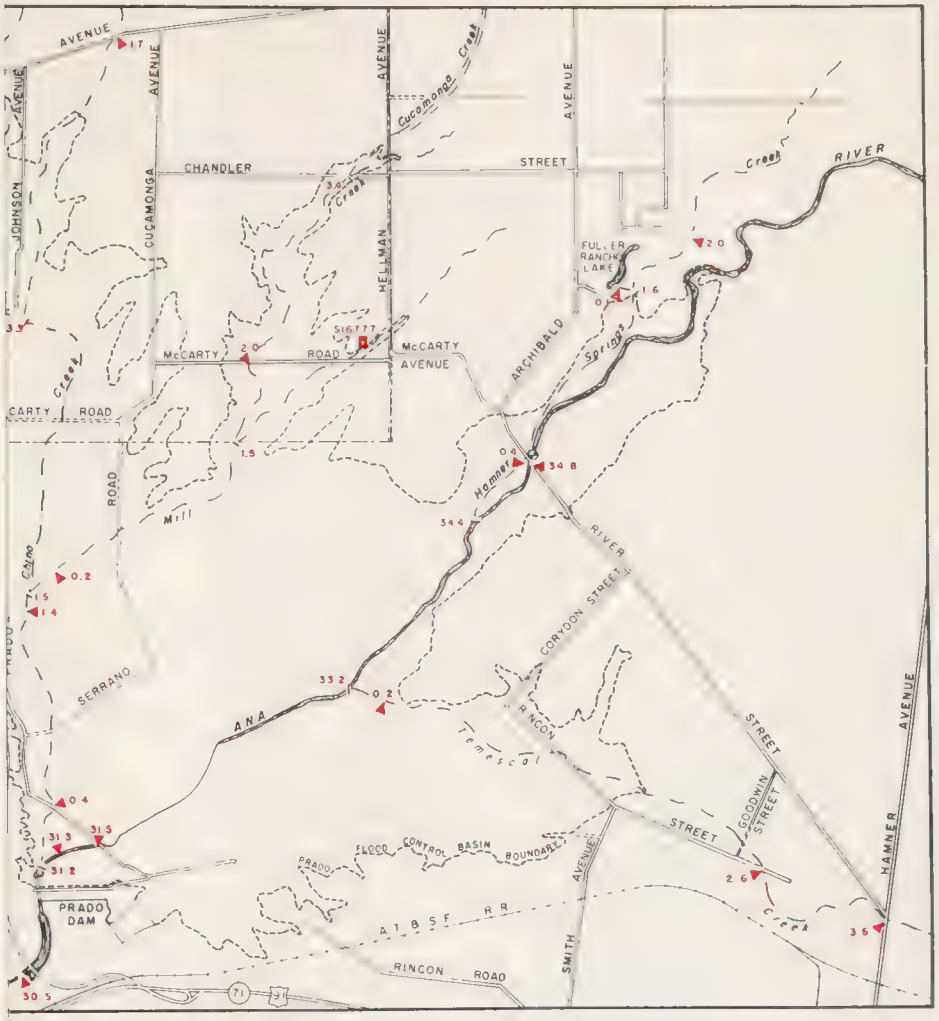
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF SURFACE WATER SAMPLING STATIONS IN UPPER SANTA ANA VALLEY 1954

SCALE OF MILES

0 3 6 9 12



INSET B

0 1/2 1 MILE

2 1 2 3000 FEET

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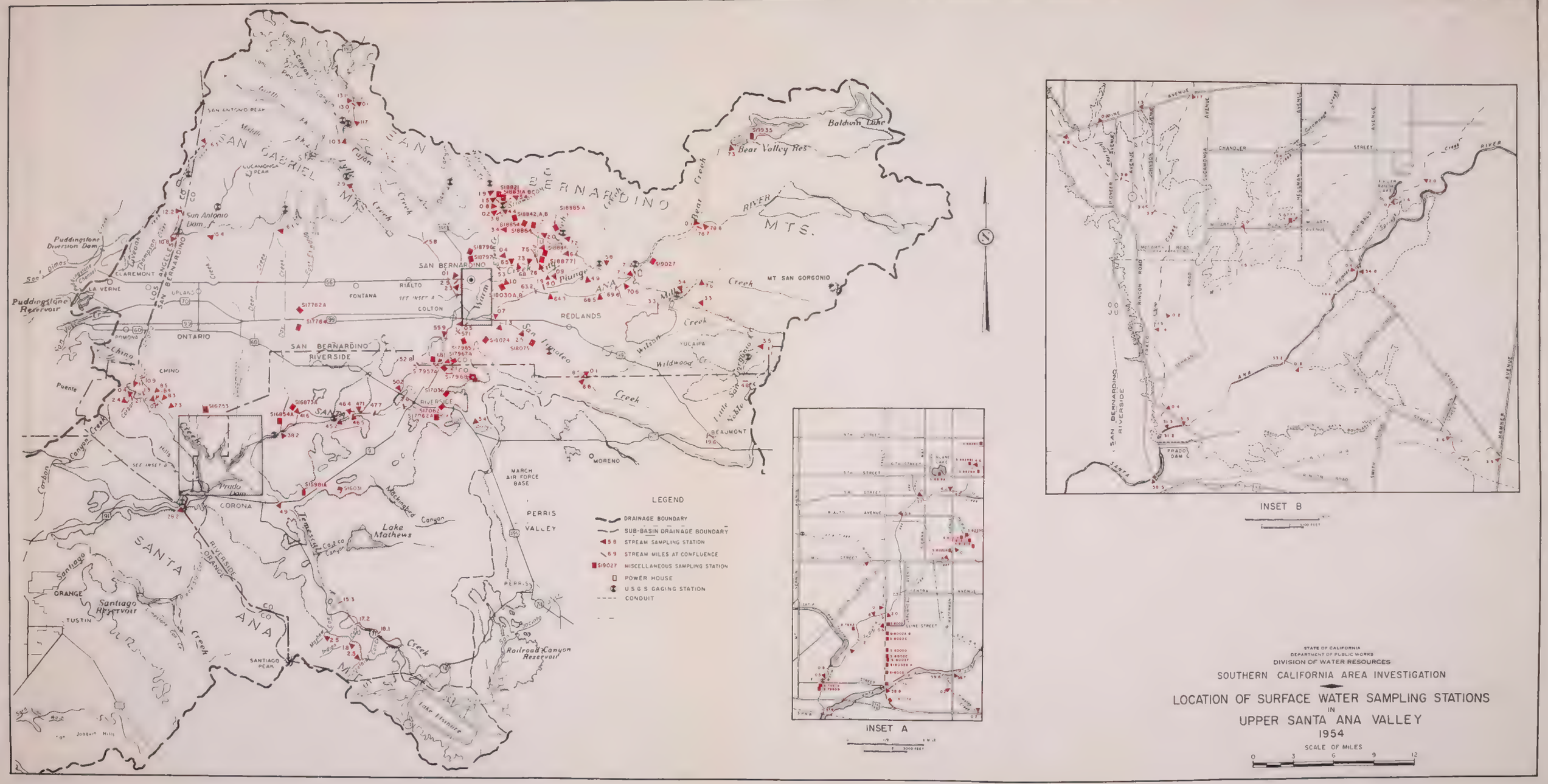
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF SURFACE WATER SAMPLING STATIONS IN UPPER SANTA ANA VALLEY 1954

SCALE OF MILES

0 3 6 9 12

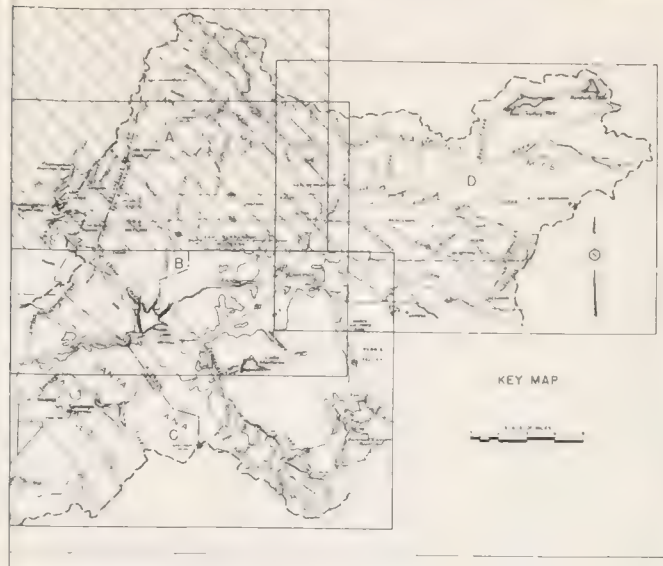


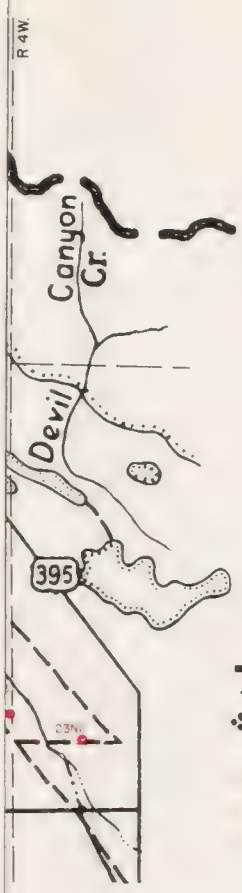
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF SURFACE WATER SAMPLING STATIONS IN UPPER SANTA ANA VALLEY 1954

SCALE OF MILES
0 3 6 9 12





GROUND WATER BASINS

4—14.02 POMONA BASIN
4—14.03 LIVE OAK BASIN
4—14.04 CLAREMONT HEIGHTS BASIN

8—2.02 CLAREMONT HEIGHTS BASIN
8—2.03 CUCAMONGA BASIN
8—2.04 RIALTO BASIN
8—2.07 LYTLE BASIN
8—2.08 UPPER CAJON BASIN
8—2.09 LOWER CAJON BASIN

LEGEND

DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8—2 GROUND WATER BASIN NUMBER
8—2.17 GROUND WATER SUB-BASIN NUMBER
22A1 WATER WELL

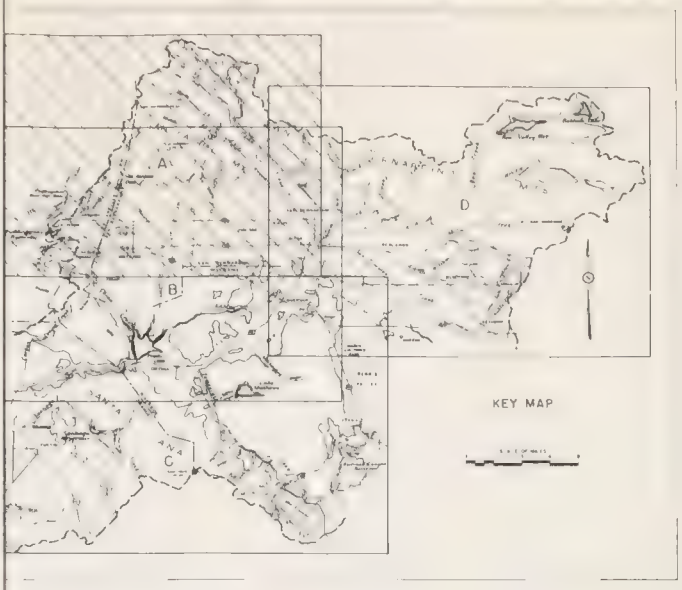
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

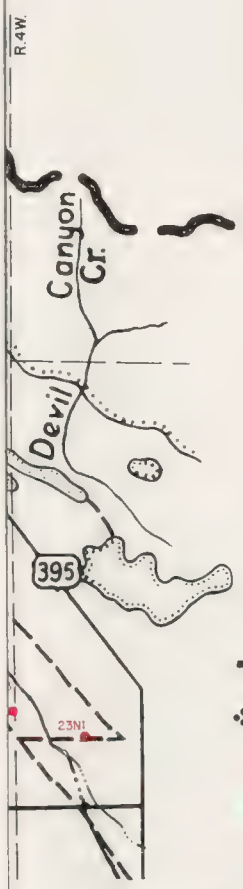
SOUTHERN CALIFORNIA AREA INVESTIGATION

OCATION OF GROUND WATER SAMPLING STATIONS
IN
NORTH PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES
0 1 2 3 4

56490





GROUND WATER BASINS

4—14.02 POMONA BASIN
4—14.03 LIVE OAK BASIN
4—14.04 CLAREMONT HEIGHTS BASIN

8—2.02 CLAREMONT HEIGHTS BASIN
8—2.03 CUCAMONGA BASIN
8—2.04 RIALTO BASIN
8—2.07 LYTLE BASIN
8—2.08 UPPER CAJON BASIN
8—2.09 LOWER CAJON BASIN

LEGEND

DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8—2 GROUND WATER BASIN NUMBER
8—2.17 GROUND WATER SUB-BASIN NUMBER
22A1 WATER WELL

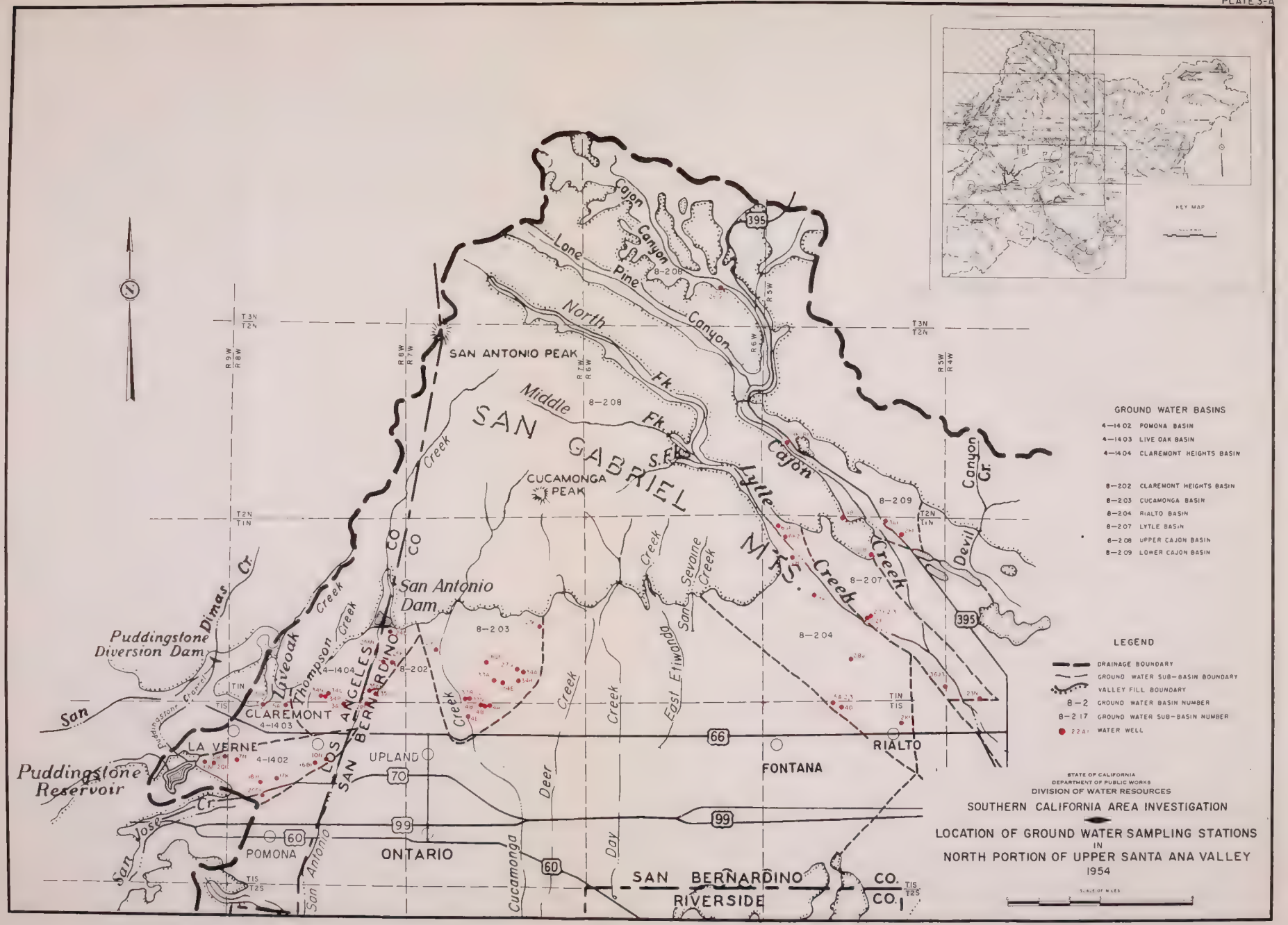
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

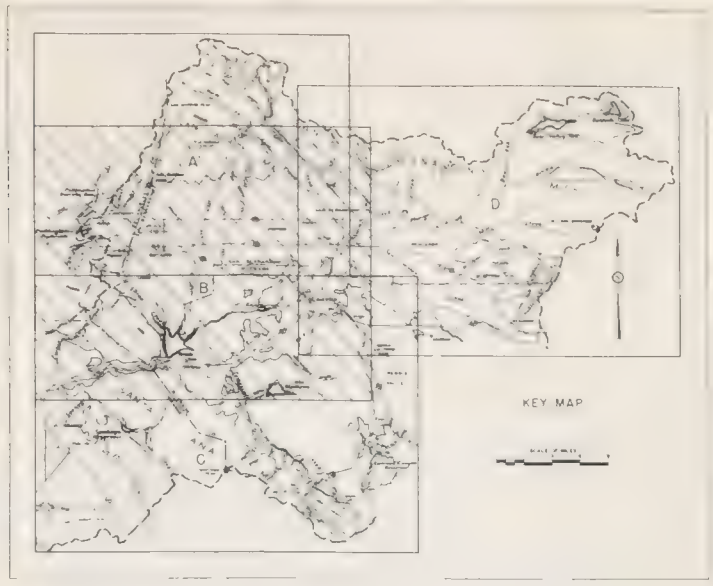
SOUTHERN CALIFORNIA AREA INVESTIGATION

OCATION OF GROUND WATER SAMPLING STATIONS
IN
NORTH PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES

56490


KEY MAP
GROUND WATER BASINS
4—1402 POMONA BASIN
4—1403 LIVE OAK BASIN
4—1404 CLAREMONT HEIGHTS BASIN
8—202 CLAREMONT HEIGHTS BASIN
8—203 CUCAMONGA BASIN
8—204 RIALTO BASIN
8—207 LYTLE BASIN
8—208 UPPER CAJON BASIN
8—209 LOWER CAJON BASIN
LEGEND
DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8—2 GROUND WATER BASIN NUMBER
8—2 17 GROUND WATER SUB-BASIN NUMBER
22A1 WATER WELL
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF GROUND WATER SAMPLING STATIONS
IN
NORTH PORTION OF UPPER SANTA ANA VALLEY
1954
SCALE OF MILES
SAN ANTONIO PEAK
CUCAMONGA PEAK
SAN GABRIEL MTS.
Lone Pine Canyon
Cajon Canyon
North Fk.
Middle Fk.
S. Fk.
Lytle Creek
Cajon Creek
Devil Canyon Cr.
San Sevaine Creek
East Etiwanda Creek
Deer Creek
Day Creek
Cucamonga Creek
San Antonio Creek
Thompson Creek
Liveoak Creek
Dimas Cr.
San Antonio Dam
Puddingstone Diversion Dam
Puddingstone Reservoir
San Jose Cr.
CLAREMONT
LA VERNE
UPLAND
POMONA
ONTARIO
FONTANA
RIALTO
LOS ANGELES CO.
SAN BERNARDINO CO.
SAN BERNARDINO CO.
RIVERSIDE CO.
4-1402
4-1403
4-1404
8-202
8-203
8-204
8-207
8-208
8-209
395
66
70
99
60
T3N
T2N
T1N
T1S
T2S
R9W
R8W
R7W
R6W
R5W
R4W



GROUND WATER BASINS

4—14.01 CHINO BASIN

8—2.01 CHINO BASIN

8—2.15 RIVERSIDE BASIN

LEGEND

DRAINAGE BOUNDARY

GROUND WATER SUB—BASIN BOUNDARY

VALLEY FILL BOUNDARY

8—2 GROUND WATER BASIN NUMBER

8—2.17 GROUND WATER SUB—BASIN NUMBER

2241 WATER WELL

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

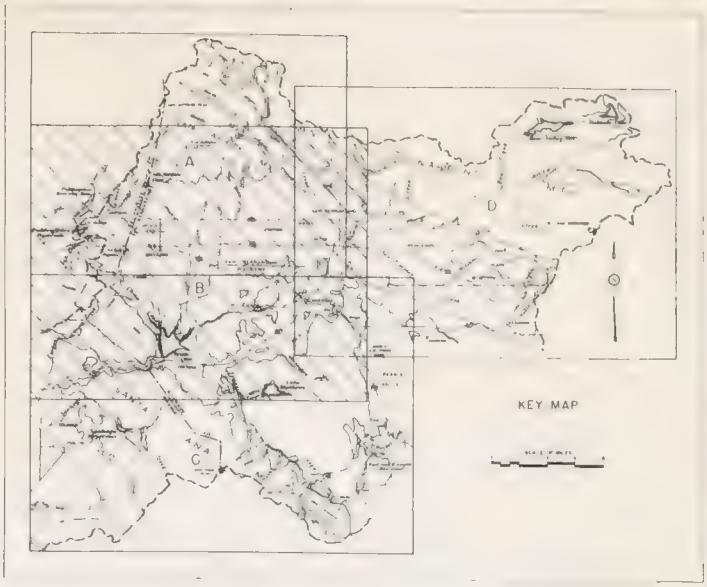
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF GROUND WATER SAMPLING STATIONS
IN
CENTRAL PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES

0 1 2 3 6

56490



GROUND WATER BASINS

4—14.01 CHINO BASIN

8—2.01 CHINO BASIN

8—2.15 RIVERSIDE BASIN

LEGEND

DRAINAGE BOUNDARY

GROUND WATER SUB—BASIN BOUNDARY

VALLEY FILL BOUNDARY

8—2 GROUND WATER BASIN NUMBER

8—2.17 GROUND WATER SUB—BASIN NUMBER

22A1 WATER WELL

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
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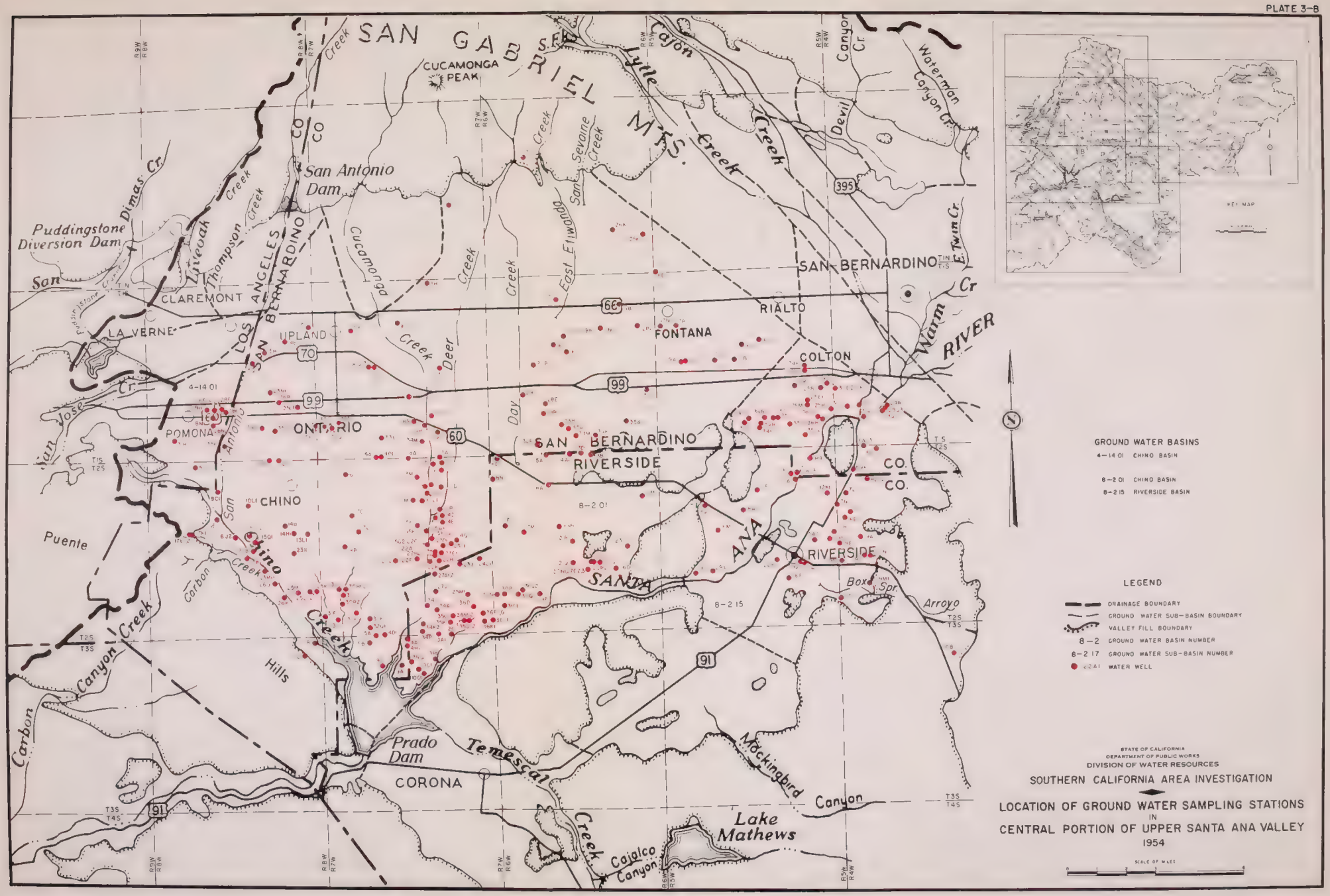
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF GROUND WATER SAMPLING STATIONS
IN
CENTRAL PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES

0 1 2 3 6

56490


SAN GABRIEL MTS.
CUCAMONGA PEAK
San Antonio Dam
Puddingstone Diversion Dam
Dimas Cr.
Lytle Creek
Devil Canyon Cr.
Waterman Canyon Cr.
East Twin Cr.
Warm Cr.
RIVER
SAN BERNARDINO
RIALTO
FONTANA
COLTON
CLAREMONT
LA VERNE
UPLAND
POMONA
ONTARIO
CHINO
RIVERSIDE
CORONA
Prado Dam
Temescal
Lake Mathews
Mockingbird Canyon
Cajalco Canyon
Carbon Canyon Creek
Puente Hills
Chino Creek
San Antonio Creek
Cucamonga Creek
Deer Creek
Day Creek
East Etiwanda Creek
Sevaine Creek
Thompson Creek
Lytle Creek
Box Spr. Arroyo
SANTA ANA
LOS ANGELES CO.
SAN BERNARDINO CO.
RIVERSIDE CO.
8-2 01
8-2 15
4-14 01
GROUND WATER BASINS
4-14 01 CHINO BASIN
8-2 01 CHINO BASIN
8-2 15 RIVERSIDE BASIN
LEGEND
DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8-2 GROUND WATER BASIN NUMBER
6-2 17 GROUND WATER SUB-BASIN NUMBER
2241 WATER WELL
STATE OF CALIFORNIA
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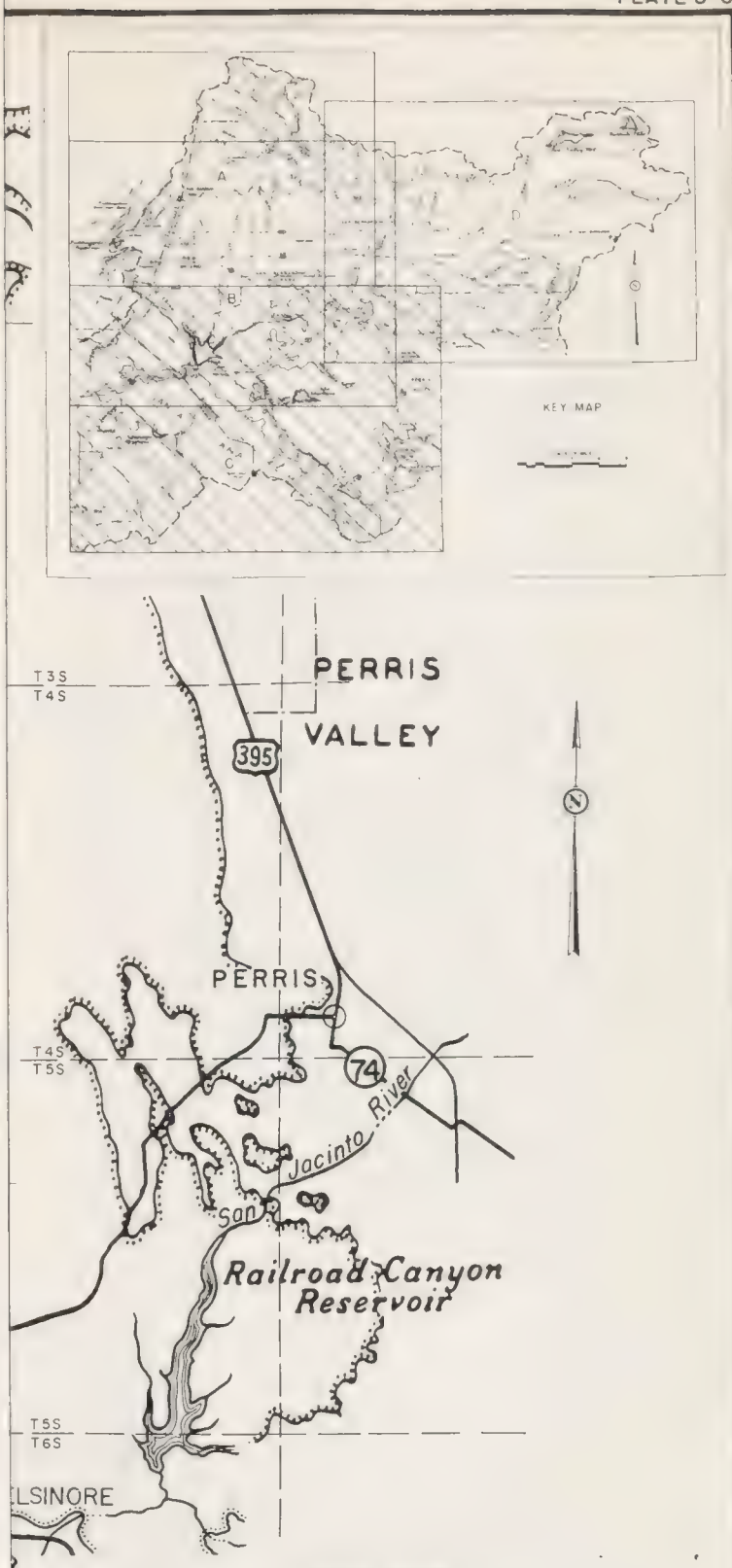
SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF GROUND WATER SAMPLING STATIONS
IN
CENTRAL PORTION OF UPPER SANTA ANA VALLEY
1954
SCALE OF MILES



STATE OF CALIFORNIA
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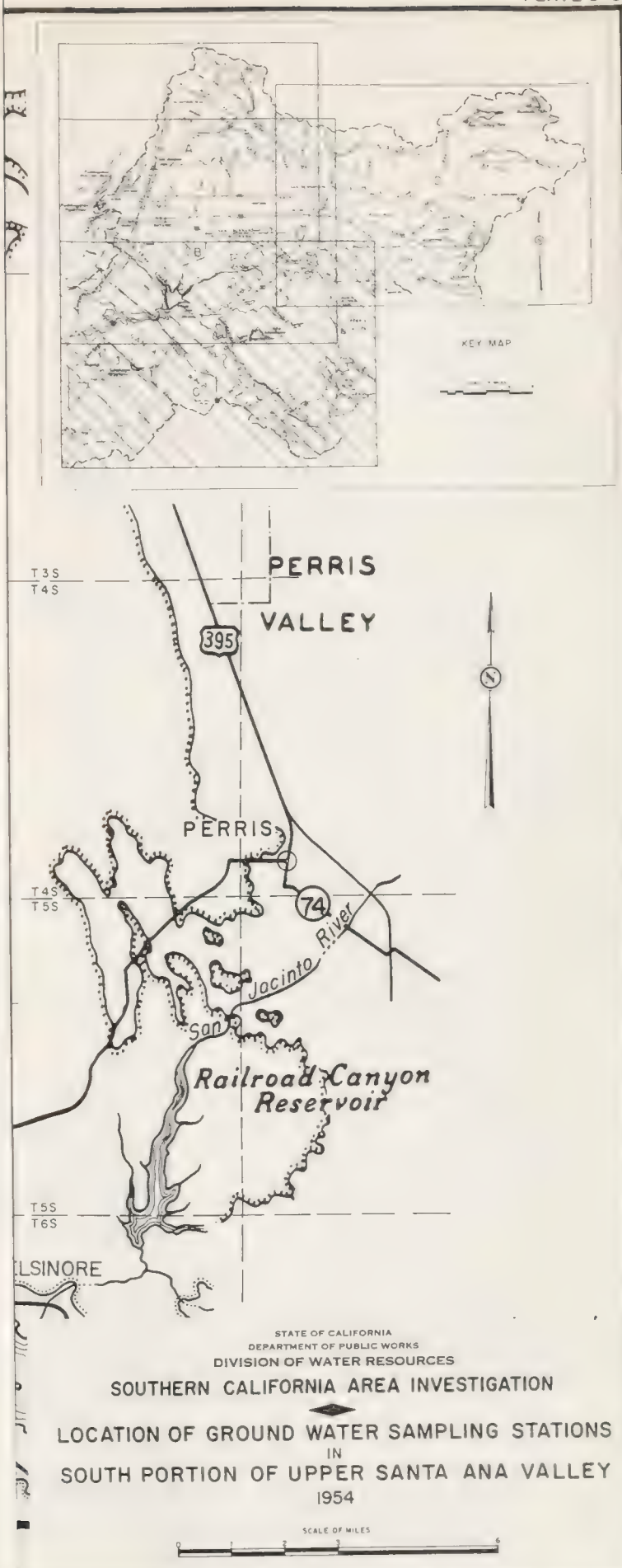
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF GROUND WATER SAMPLING STATIONS
IN
SOUTH PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES

56490


KEY MAP
PERRIS
VALLEY
395
T3S
T4S
PERRIS
74
T4S
T5S
San Jacinto River
Railroad Canyon Reservoir
T5S
T6S
LSINORE
STATE OF CALIFORNIA
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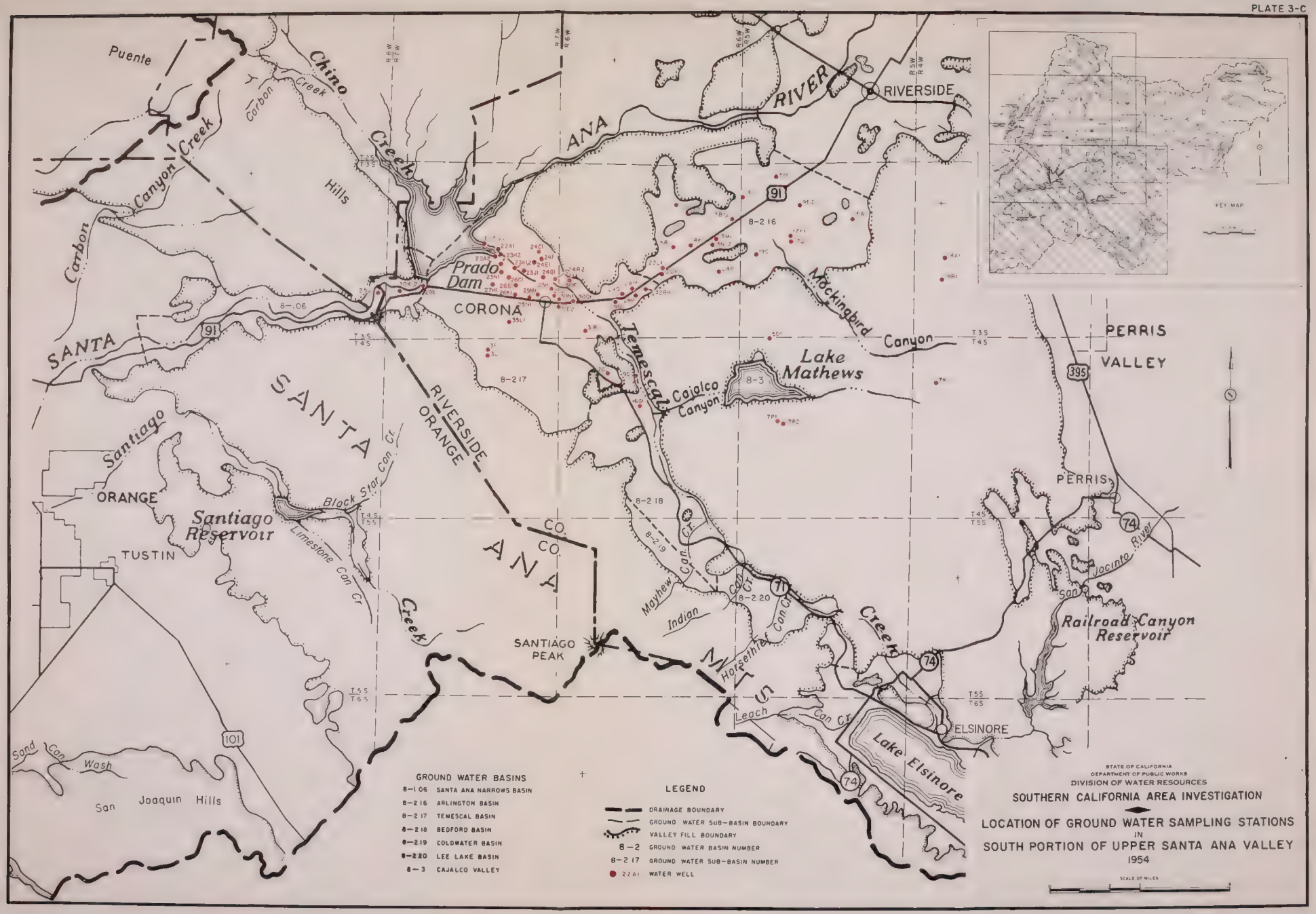
SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF GROUND WATER SAMPLING STATIONS
IN
SOUTH PORTION OF UPPER SANTA ANA VALLEY
1954
SCALE OF MILES

56490


Puente
Chino Creek
Carbon Creek
Carbon Canyon Creek
Hills
SANTA ANA RIVER
RIVERSIDE
Prado Dam
CORONA
Temescal
Cajalco Canyon
Lake Mathews
Mockingbird Canyon
PERRIS VALLEY
PERRIS
SANTA ANA
RIVERSIDE CO.
ORANGE CO.
Santiago
ORANGE
Santiago Reservoir
TUSTIN
Block Star Can. Cr.
Limestone Can. Cr.
Mayhew Can. Cr.
Indian Can. Cr.
Horsethief Can. Cr.
Leach Can. Cr.
San Jacinto River
Railroad Canyon Reservoir
Lake Elsinore
ELSINORE
SANTIAGO PEAK
MTS
Sand Can. Wash
San Joaquin Hills
8-1.06
8-2.16
8-2.17
8-2.18
8-2.19
8-2.20
8-3
KEY MAP
GROUND WATER BASINS
8-1.06 SANTA ANA NARROWS BASIN
8-2.16 ARLINGTON BASIN
8-2.17 TEMESCAL BASIN
8-2.18 BEDFORD BASIN
8-2.19 COLDWATER BASIN
8-2.20 LEE LAKE BASIN
8-3 CAJALCO VALLEY
LEGEND
DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8-2 GROUND WATER BASIN NUMBER
8-2.17 GROUND WATER SUB-BASIN NUMBER
22A1 WATER WELL
STATE OF CALIFORNIA
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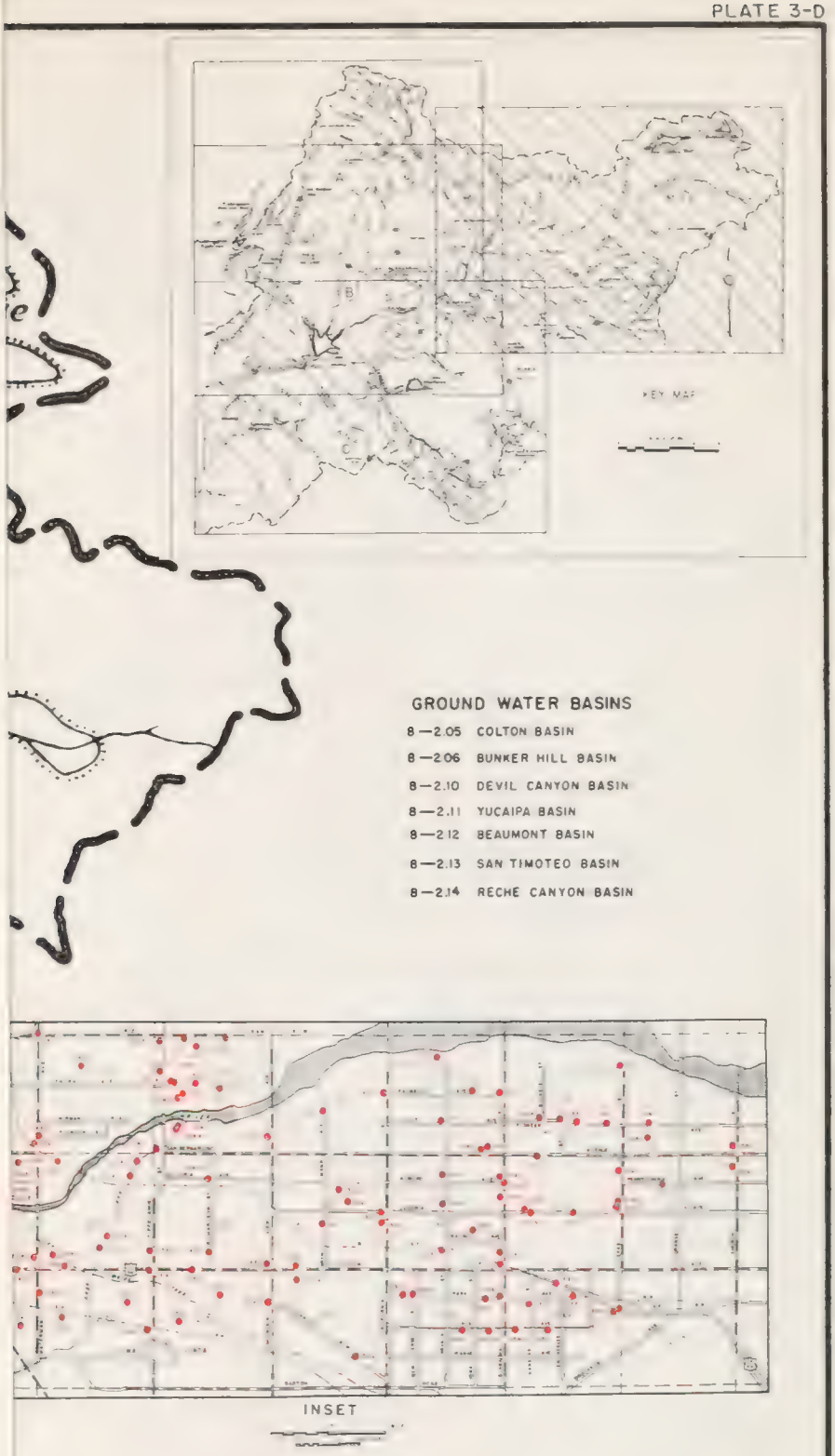
SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF GROUND WATER SAMPLING STATIONS
IN
SOUTH PORTION OF UPPER SANTA ANA VALLEY
1954
SCALE OF MILES



STATE OF CALIFORNIA
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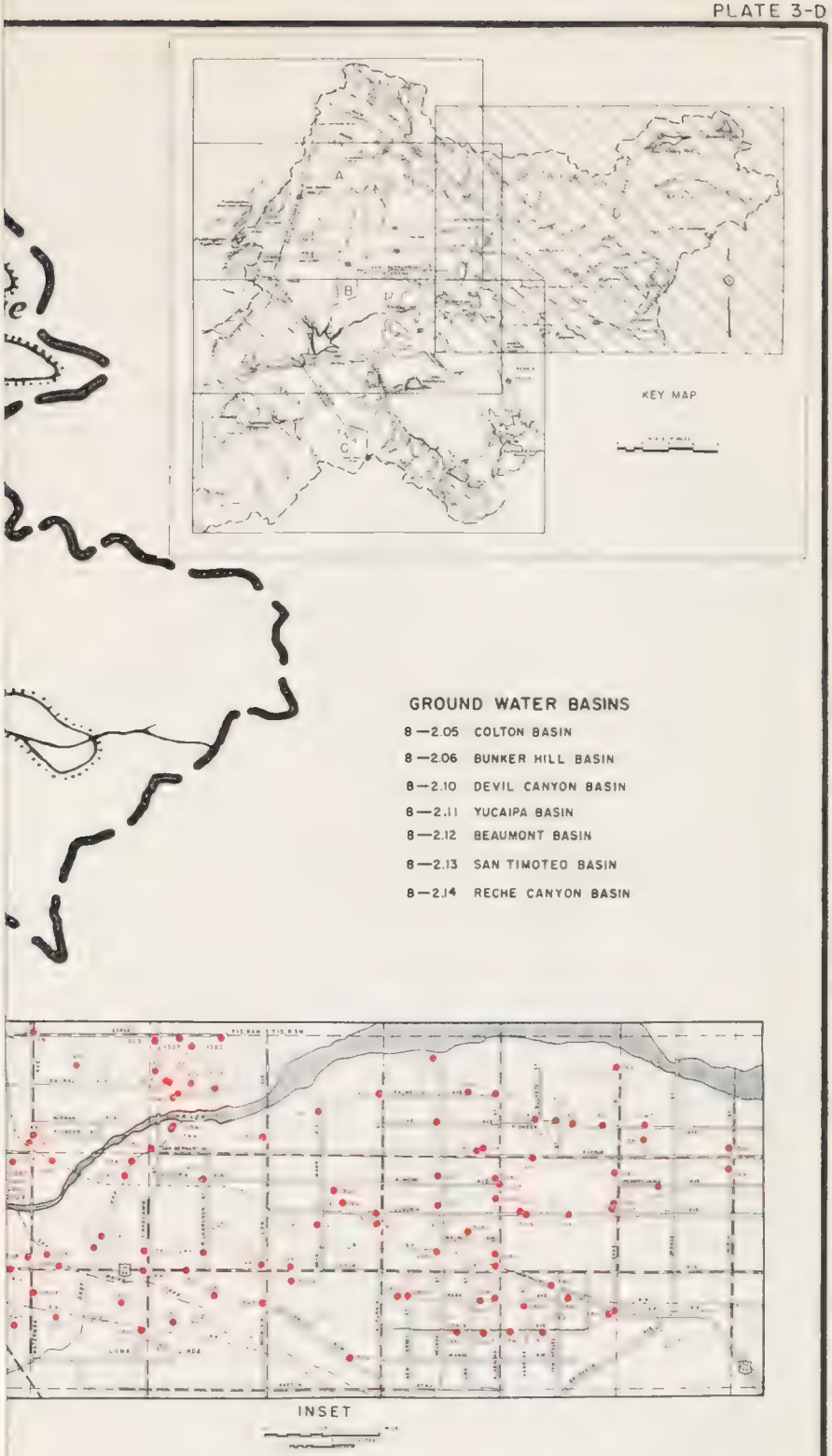
DIVISION OF WATER RESOURCES

SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF GROUND WATER SAMPLING STATIONS
IN
EAST PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES

56490



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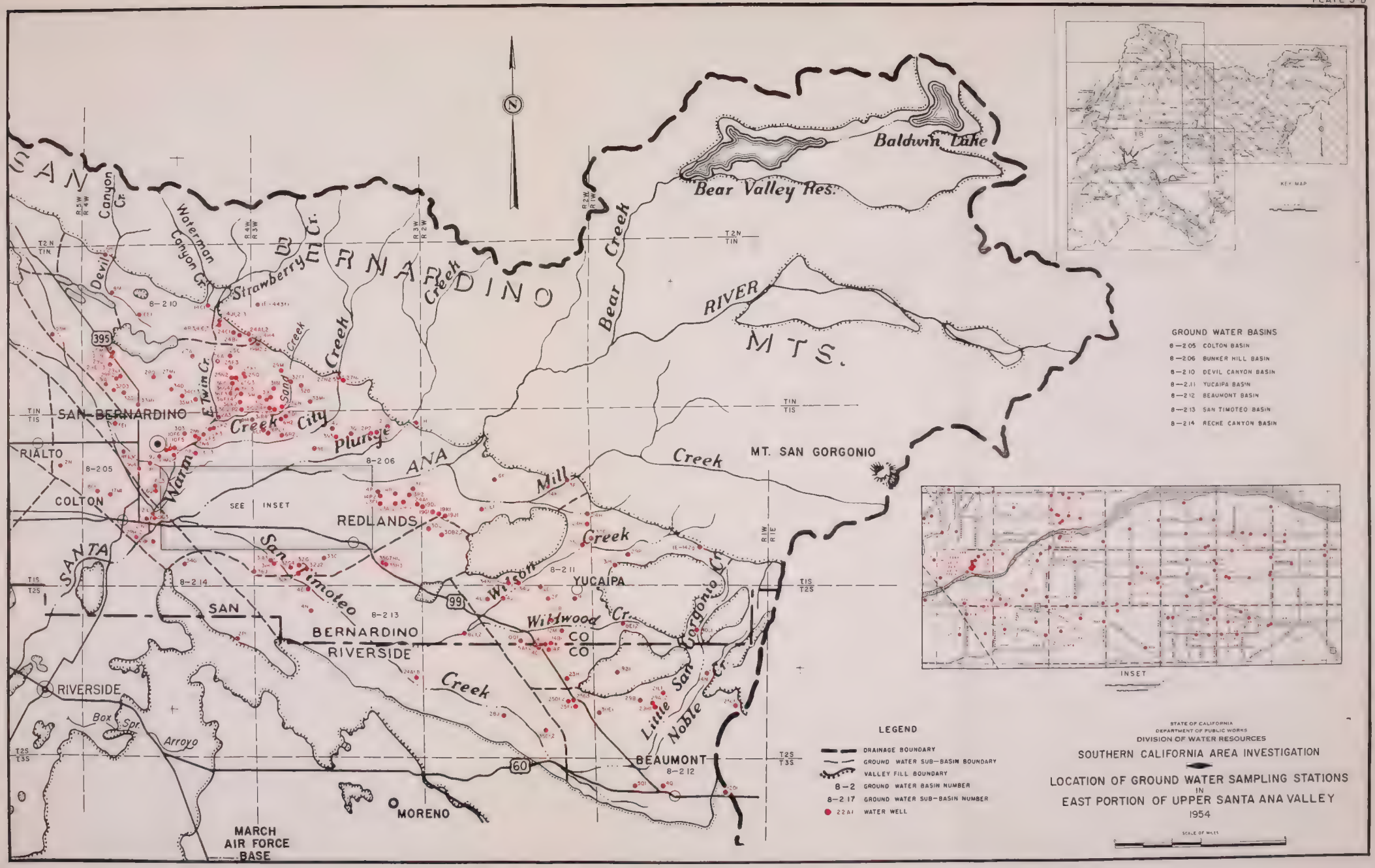
DIVISION OF WATER RESOURCES

SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF GROUND WATER SAMPLING STATIONS
IN
EAST PORTION OF UPPER SANTA ANA VALLEY
1954

SCALE OF MILES
0 1 2 3 6

56490


SAN BERNARDINO
Devil Canyon Cr.
Waterman Canyon Cr.
Strawberry Cr.
Creek
Bear Creek
Baldwin Lake
Bear Valley Res.
RIVER
MTS.
Warm Creek
Twin Cr.
Sand Creek
City
Plunge
ANA
Mill Creek
MT. SAN GORGONIO
SAN BERNARDINO
RIALTO
COLTON
SEE INSET
REDLANDS
SANTA
San Timoteo
Wilson Creek
YUCAIPA
Wildwood Cr.
Little San Gorgonio Cr.
Noble Cr.
SAN BERNARDINO CO
RIVERSIDE CO
RIVERSIDE
Box Spr. Arroyo
Creek
BEAUMONT
MORENO
MARCH AIR FORCE BASE
8-2.10
8-2.05
8-2.06
8-2.14
8-2.13
8-2.11
8-2.12
395
99
60
T2N T1N
T1N T1S
T1S T2S
T2S T3S
R5W R4W
R4W R3W
R3W R2W
R2W R1W
R1W R1E
GROUND WATER BASINS
8—2.05 COLTON BASIN
8—2.06 BUNKER HILL BASIN
8—2.10 DEVIL CANYON BASIN
8—2.11 YUCAIPA BASIN
8—2.12 BEAUMONT BASIN
8—2.13 SAN TIMOTEO BASIN
8—2.14 RECHE CANYON BASIN
KEY MAP
INSET
LEGEND
DRAINAGE BOUNDARY
GROUND WATER SUB-BASIN BOUNDARY
VALLEY FILL BOUNDARY
8—2 GROUND WATER BASIN NUMBER
8—2.17 GROUND WATER SUB-BASIN NUMBER
22A1 WATER WELL
STATE OF CALIFORNIA
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SOUTHERN CALIFORNIA AREA INVESTIGATION
LOCATION OF GROUND WATER SAMPLING STATIONS
IN
EAST PORTION OF UPPER SANTA ANA VALLEY
1954
SCALE OF MILES

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